EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("0688802").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/22 06:27
L2	2	("6888027").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/22 06:27
L3	2	("6087367").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/22 06:27
L4	2	("9816503").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/22 06:27
L5	2	("5534654").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/02/22 06:27
L6	1209	HDAC	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/22 06:28
L7	2232	histone adj deacetylase	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/22 06:28
L8	2603	l6 or l7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/22 06:29
L9	13476	hydroxam$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/22 06:29
L10	460	l7 and l9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/22 06:29
L11	302	l7 same l9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/22 06:31

EAST Search History

L12	10	"6541661"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/22 07:03
L13	10	"9816503"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/22 07:49
L14	6	"5534654"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/22 09:10
L15	266	562/623.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/22 09:10
L16	11	l10 and l15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/22 09:11

Connecting via Winsock to STN

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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
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NEWS 3	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS 4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 6	NOV 10	CA/CAplus F-Term thesaurus enhanced
NEWS 7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS 8	NOV 20	CA/CAplus to MARPAT accession number crossover limit increased to 50,000
NEWS 9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS 10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS 11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 13	DEC 18	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14	DEC 18	CA/CAplus patent kind codes updated
NEWS 15	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 17	DEC 27	CA/CAplus enhanced with more pre-1907 records
NEWS 18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 23	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 24	JAN 29	PHAR reloaded with new search and display fields
NEWS 25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 26	FEB 13	CASREACT coverage to be extended
NEWS 27	Feb 15	PATDPASPC enhanced with Drug Approval numbers
NEWS 28	Feb 15	RUSSIAPAT enhanced with pre-1994 records

NEWS EXPRESS	NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8
NEWS X25	X.25 communication option no longer available

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* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:20:08 ON 20 FEB 2007

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:20:20 ON 20 FEB 2007
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STRUCTURE FILE UPDATES: 19 FEB 2007 HIGHEST RN 921921-74-6
DICTIONARY FILE UPDATES: 19 FEB 2007 HIGHEST RN 921921-74-6

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	0.66

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:20:28 ON 20 FEB 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 10:38:00 ON 20 FEB 2007
FILE 'REGISTRY' ENTERED AT 10:38:00 ON 20 FEB 2007
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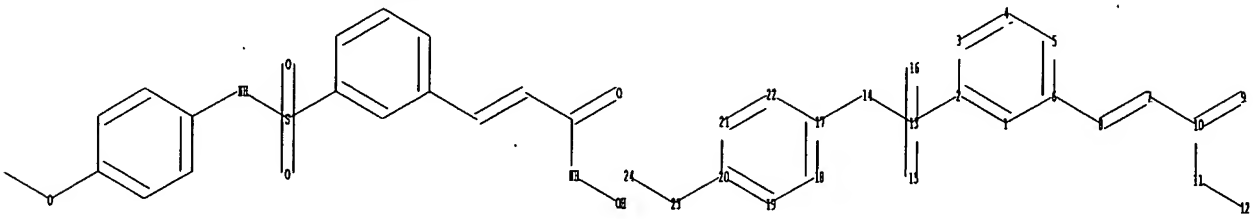
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	0.66

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10811332\10811332 elected specie.str



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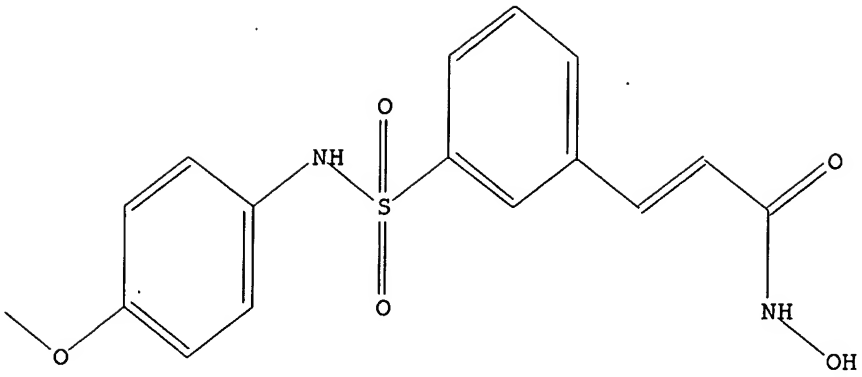
ring nodes :
1 2 3 4 5 6 17 18 19 20 21 22
chain bonds :
2-13 6-8 7-10 7-8 9-10 10-11 11-12 13-14 13-15 13-16 14-17 20-23 23-24
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 17-18 17-22 18-19 19-20 20-21 21-22
exact/norm bonds :
2-13 9-10 10-11 13-14 13-15 13-16 14-17 20-23 23-24
exact bonds :
6-8 7-10 7-8 11-12
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 17-18 17-22 18-19 19-20 20-21 21-22

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:CLASS 24:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 exact full
FULL SEARCH INITIATED 10:39:28 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 45 TO ITERATE

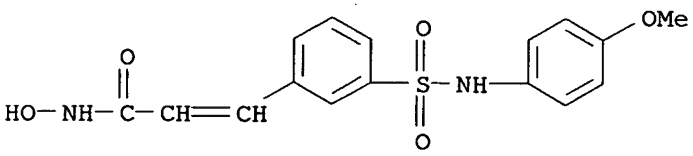
100.0% PROCESSED 45 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L2 2 SEA EXA FUL L1

=> \\d scan
8598666 D
47 SCAN
L3 0 \\D SCAN
(D(W)SCAN)

=> d scan l2

L2 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[3-[[(4-methoxyphenyl)amino]sulfonyl]phenyl]-
(9CI)
MF C16 H16 N2 O5 S

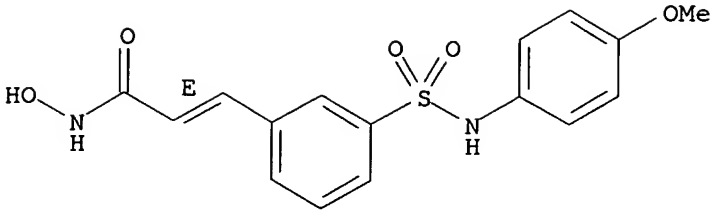


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[3-[[(4-methoxyphenyl)amino]sulfonyl]phenyl]-,
(2E)- (9CI)
MF C16 H16 N2 O5 S

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	69.50	69.71

FILE 'CAPLUS' ENTERED AT 10:40:19 ON 20 FEB 2007
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FILE LAST UPDATED: 19 Feb 2007 (20070219/ED)

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=> l2
L4 2 L2

=> d l4 1-2 ti fbib abs

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
TI Novel sulfonamide derivatives as inhibitors of histone deacetylase
AN 2005:842556 CAPLUS
DN 143:359422
TI Novel sulfonamide derivatives as inhibitors of histone deacetylase
AU Finn, Paul W.; Bandara, Morwena; Butcher, Chris; Finn, Angela; Hollinshead, Ruth; Khan, Nagma; Law, Norman; Murthy, Sreenivasa; Romero, Rosario; Watkins, Clare; Andrianov, Victor; Bokaldere, Rasma M.; Dikovska, Klara; Gailite, Vija; Loza, Einars; Piskunova, Irina; Starchenkov, Igor; Vorona, Maxim; Kalvinsh, Ivars
CS TopoTarget UK Ltd., Abingdon, OX14 4RY, UK
SO Helvetica Chimica Acta (2005), 88(7), 1630-1657

CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta
DT Journal
LA English
OS CASREACT 143:359422
AB Inhibition of the enzyme histone deacetylase (HDAC) is emerging as a novel approach to the treatment of cancer. A series of novel sulfonamide derivs. were synthesized and evaluated for their ability to inhibit human HDAC. Compds. were identified which are potent enzyme inhibitors, with IC50 values in the low nanomolar range against enzyme obtained from HeLa cell exts., and with antiproliferative effects in cell culture. Extensive characterization of the structure-activity relationships of this series identified key requirements for activity. These include the direction of the sulfonamide bond and substitution patterns on the central Ph ring. The alkyl spacer between the aromatic head group and the sulfonamide functionality also influenced the HDAC inhibitory activity. One of these compds., m11.1, also designated PXD101, has entered clin. trials for solid tumors and haematol. malignancies.
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of aryl-substituted N-hydroxy amides with sulfonamide linkages as HDAC inhibitors for treatment of proliferative conditions
AN 2002:293604 CAPLUS
DN 136:325325
TI Preparation of aryl-substituted N-hydroxy amides with sulfonamide linkages as HDAC inhibitors for treatment of proliferative conditions
IN Watkins, Clare J.; Romero-Martin, Maria-Rosario; Moore, Kathryn G.; Ritchie, James; Finn, Paul W.; Kalvinsh, Ivars; Loza, Einars; Dikovska, Klara; Gailite, Vija; Vorona, Maxim; Piskunova, Irina; Starchenkov, Igor; Adrianov, Victor; Harris, C. John; Duffy, James E. S.
PA Prolifix Limited, UK
SO PCT Int. Appl., 267 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 2002030879	A2	20020418	WO 2001-GB4326		20010927
	WO 2002030879	A3	20020627			
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	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
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				US 2001-308136P	P	20010730
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				WO 2001-GB4326	W	20010927
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US 2007004806		A1	20070104	US 2006-516620		20060907
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				US 2004-953106	A1	20040930

OS MARPAT 136:325325

AB The title compds. AQ1JQ2CONHOH (I) [wherein A = aryl group; Q1 = covalent bond or aryl leader group having a backbone of at least 2 C atoms; J = SO2NR1 or NR1SO2; R1 = sulfonamido substituent; Q2 = acid leader group; with the proviso that if J is SO2NR1, then Q1 is an aryl leader group; and pharmaceutically acceptable salts, solvates, amides, esters, ethers, chemical protected forms, and prodrugs thereof] were prepared as histone deacetylase (HDAC) inhibitors for treatment of proliferative conditions, such as cancer and psoriasis. For example, 3-(3-sulfonylphenyl)acrylic acid Me ester (preparation given) was coupled with 1-aminonaphthalene to give the sulfonamide (51%). Deesterification (79%), followed by conversion to the acid chloride (99%) and treatment with HONH2•HCl in the presence of NaHCO3 in THF, afforded N-hydroxy-3-[3-(naphthalen-1-ylsulfamoyl)phenyl]acrylamide (PX117228) in 24% yield. The latter inhibited HDAC from crude human cervical adenocarcinoma (HeLa) extract with IC50 of 7 nM and inhibited cell proliferation against the HeLa cell line using cell proliferation reagent WST-1 with IC50 of 0.8 nM.

Structure-activity relationship studies showed superior activity for I when (1) a reverse sulfonamide, i.e. NHSO2, was employed as J, (2) a covalent bond or aryl leader having a backbone of at least 2C atoms was used as Q1, and/or (3) a phenylene-meta-alkylene linkage was employed as Q2.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.77	81.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:48:17 ON 20 FEB 2007

Connecting via Winsock to STN

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LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:23:43 ON 20 FEB 2007
FILE 'CAPLUS' ENTERED AT 11:23:43 ON 20 FEB 2007
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.77	81.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	11.77	81.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56

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STRUCTURE FILE UPDATES: 19 FEB 2007 HIGHEST RN 921921-74-6
DICTIONARY FILE UPDATES: 19 FEB 2007 HIGHEST RN 921921-74-6

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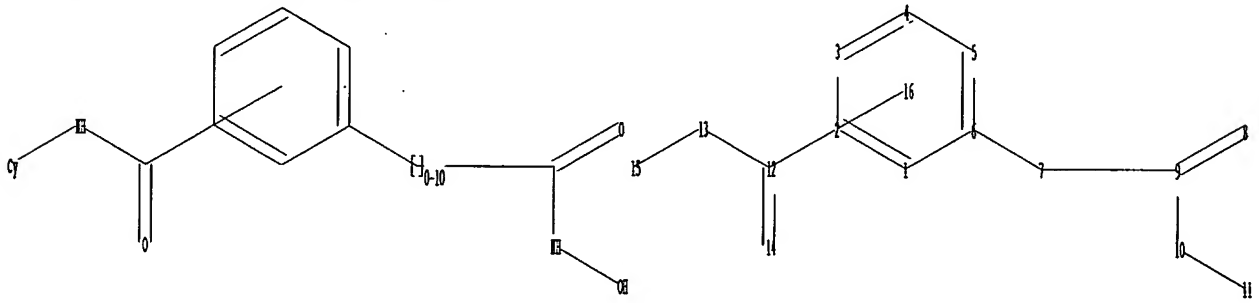
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10811332\10811332 first stab.str



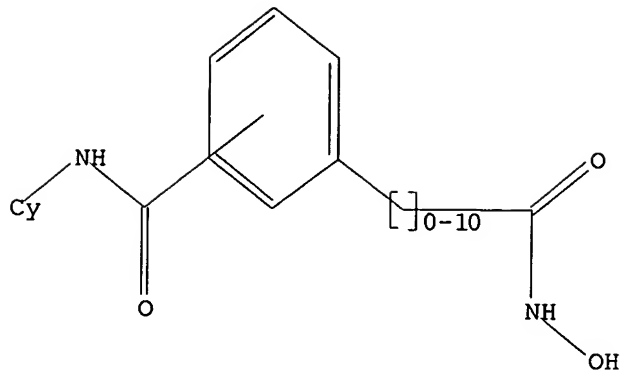
chain nodes :
7 8 9 10 11 12 13 14 15
ring nodes :
1 2 3 4 5 6
chain bonds :
6-7 7-9 8-9 9-10 10-11 12-14 12-13 13-15
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6
exact/norm bonds :
8-9 9-10 12-14 12-13 13-15
exact bonds :
6-7 7-9 10-11
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:Atom

L5 STRUCTURE UPLOADED

=> d l25
L25 NOT FOUND
The L-number entered has not been defined in this session, or it
has been deleted. To see the L-numbers currently defined in this
session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> d l5
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

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=> search l5 sss sam
SAMPLE SEARCH INITIATED 11:24:53 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     1227 TO ITERATE

100.0% PROCESSED     1227 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        22439 TO    26641
PROJECTED ANSWERS:               0 TO        0

L6            0 SEA SSS SAM L5

=> search l5 sss full
FULL SEARCH INITIATED 11:25:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    24958 TO ITERATE

100.0% PROCESSED    24958 ITERATIONS                                 29 ANSWERS
SEARCH TIME: 00.00.01

L7            29 SEA SSS FUL L5

=> d scan

L7   29 ANSWERS   REGISTRY  COPYRIGHT 2007 ACS on STN
IN   1,2-Benzenedicarboxamide, N-[8-(dimethylamino)-1-naphthalenyl]-N'-hydroxy-
     (9CI)
MF   C20 H19 N3 O3
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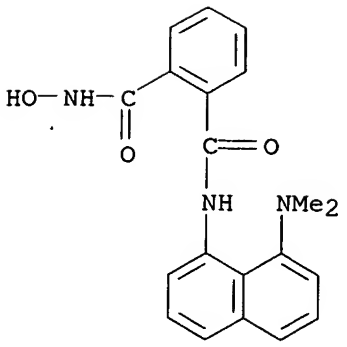
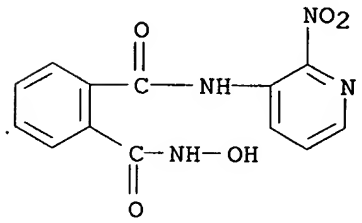


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

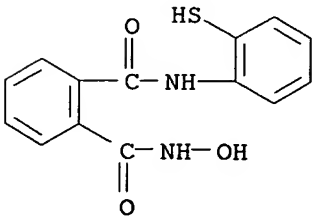
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):29

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,2-Benzenedicarboxamide, N-hydroxy-N'-(2-nitro-3-pyridinyl)- (9CI)
MF C13 H10 N4 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

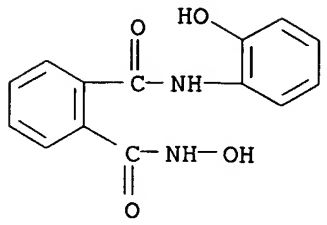
L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,2-Benzenedicarboxamide, N-hydroxy-N'-(2-mercaptophenyl)- (9CI)
MF C14 H12 N2 O3 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

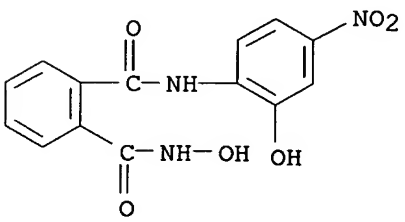
L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,2-Benzenedicarboxamide, N-hydroxy-N'-(2-hydroxyphenyl)- (9CI)

MF C14 H12 N2 O4



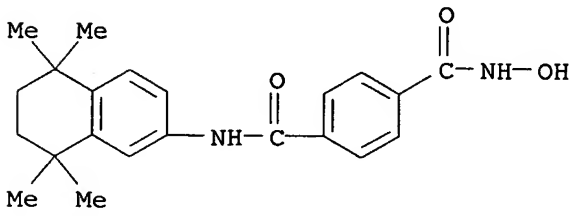
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,2-Benzenedicarboxamide, N-hydroxy-N'-(2-hydroxy-4-nitrophenyl)- (9CI)
MF C14 H11 N3 O6



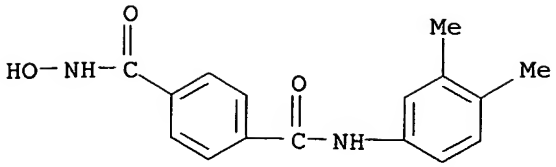
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,4-Benzenedicarboxamide, N-hydroxy-N'-(5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-2-naphthalenyl)- (9CI)
MF C22 H26 N2 O3



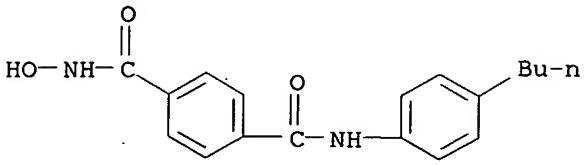
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,4-Benzenedicarboxamide, N-(3,4-dimethylphenyl)-N'-hydroxy- (9CI)
MF C16 H16 N2 O3



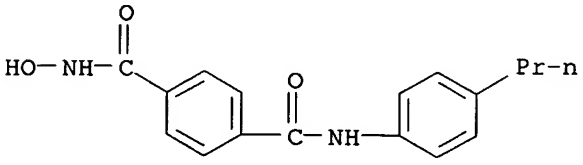
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,4-Benzenedicarboxamide, N-(4-butylphenyl)-N'-hydroxy- (9CI)
MF C18 H20 N2 O3



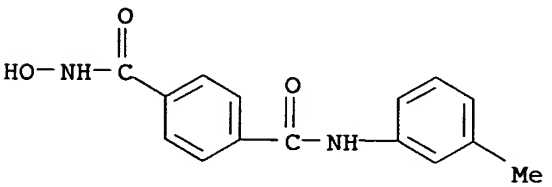
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,4-Benzenedicarboxamide, N-hydroxy-N'-(4-propylphenyl)- (9CI)
MF C17 H18 N2 O3



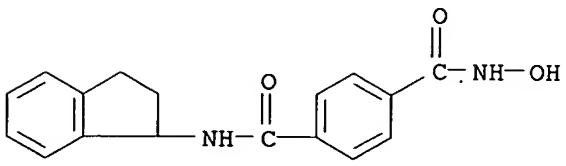
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,4-Benzenedicarboxamide, N-hydroxy-N'-(3-methylphenyl)- (9CI)
MF C15 H14 N2 O3



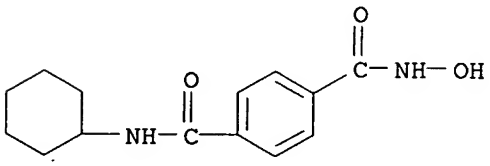
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,4-Benzenedicarboxamide, N-(2,3-dihydro-1H-inden-1-yl)-N'-hydroxy- (9CI)
MF C17 H16 N2 O3



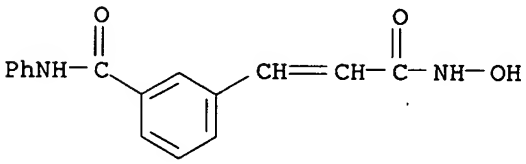
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,4-Benzenedicarboxamide, N-cyclohexyl-N'-hydroxy- (9CI)
MF C14 H18 N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, 3-[3-(hydroxyamino)-3-oxo-1-propenyl]-N-phenyl- (9CI)
MF C16 H14 N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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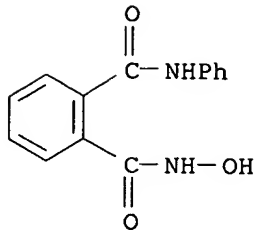
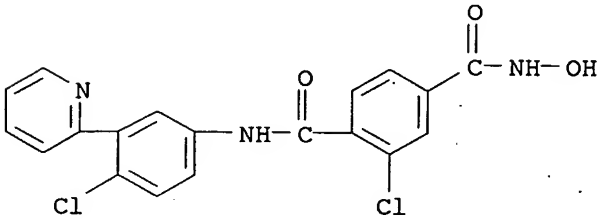
IN 1,2-Benzenedicarboxamide, N-hydroxy-N'-phenyl- (9CI)
MF C14 H12 N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,4-Benzenedicarboxamide, 2-chloro-N1-[4-chloro-3-(2-pyridinyl)phenyl]-N4-hydroxy- (9CI)
MF C19 H13 Cl2 N3 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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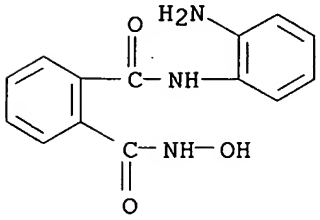
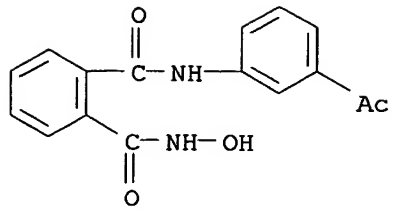
IN 1,2-Benzenedicarboxamide, N-(2-aminophenyl)-N'-hydroxy- (9CI)
MF C14 H13 N3 O3



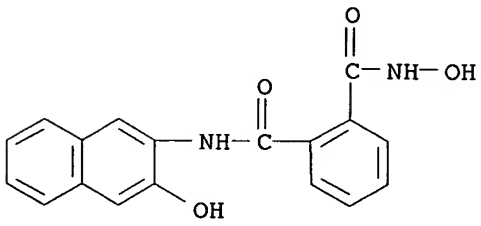
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,2-Benzenedicarboxamide, N-(3-acetylphenyl)-N'-hydroxy- (9CI)
MF C16 H14 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,2-Benzenedicarboxamide, N-hydroxy-N'-(3-hydroxy-2-naphthalenyl)- (9CI)
MF C18 H14 N2 O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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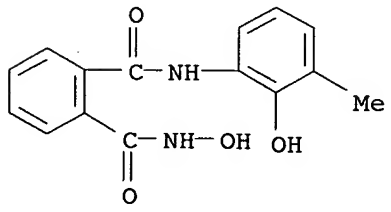
IN 1,2-Benzenedicarboxamide, N-hydroxy-N'-(2-hydroxy-3-methylphenyl)- (9CI)
MF C15 H14 N2 O4



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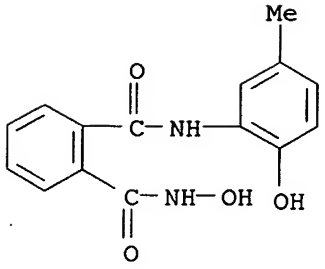
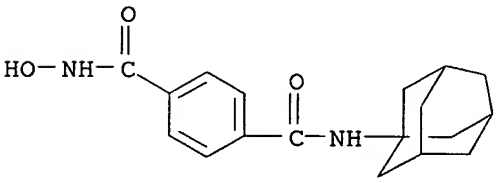
IN 1,2-Benzenedicarboxamide, N-hydroxy-N'-(2-hydroxy-5-methylphenyl)- (9CI)
MF C15 H14 N2 O4



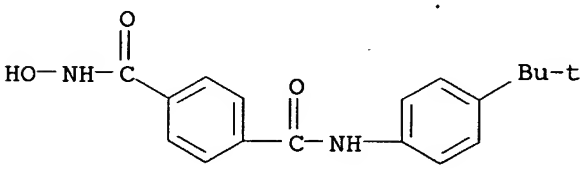
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,4-Benzenedicarboxamide, N-hydroxy-N'-tricyclo[3.3.1.13,7]dec-1-yl- (9CI)
MF C18 H22 N2 O3



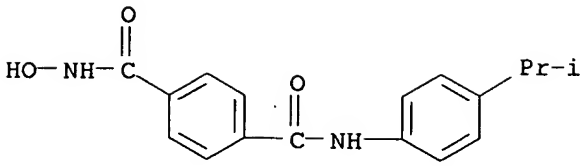
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,4-Benzenedicarboxamide, N-[4-(1,1-dimethylethyl)phenyl]-N'-hydroxy-
(9CI)
MF C18 H20 N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1,4-Benzenedicarboxamide, N-hydroxy-N'-[4-(1-methylethyl)phenyl]- (9CI)
MF C17 H18 N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
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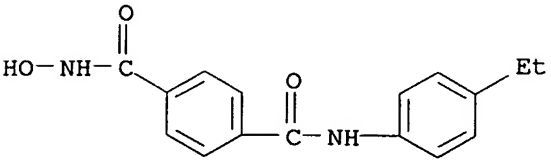
MF C16 H16 N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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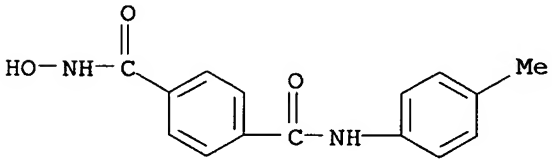
IN 1,4-Benzenedicarboxamide, N-hydroxy-N'-(4-methylphenyl)- (9CI)
MF C15 H14 N2 O3



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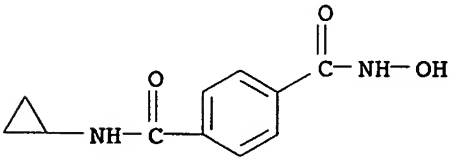
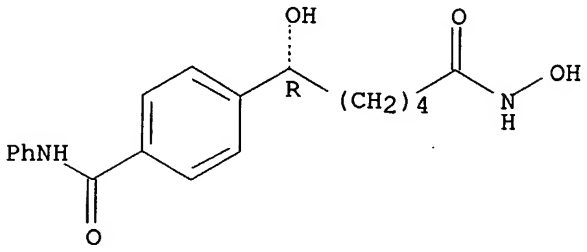
MF C11 H12 N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

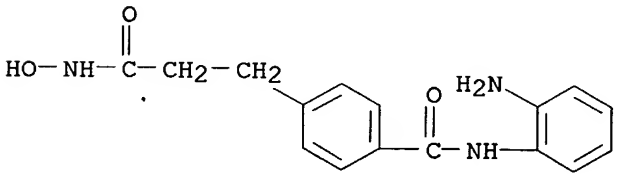
L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzenehexanamide, N,ε-dihydroxy-4-[(phenylamino)carbonyl]-, (εR)- (9CI)
MF C19 H22 N2 O4

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 29 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzenepropanamide, 4-[[(2-aminophenyl)amino]carbonyl]-N-hydroxy- (9CI)
MF C16 H17 N3 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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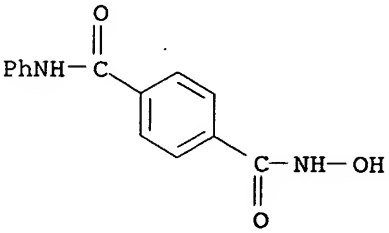
IN 1,4-Benzenedicarboxamide, N-hydroxy-N'-phenyl- (9CI)
MF C14 H12 N2 O3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

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ANSWER SET L7 HAS BEEN SAVED AS 'RAWHITS/A'

=> file caplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                       173.45     254.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                           ENTRY    SESSION
CA SUBSCRIBER PRICE                                         0.00      -1.56

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FILE LAST UPDATED: 19 Feb 2007  (20070219/ED)

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=> l7
L8          12 L7

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1STSTABHITS/A IS NOT A VALID SAVED NAME
Enter the name you wish to use for the saved query,
answer set, or L-number list.  The name must:
  1. Begin with a letter,
  2. Have 1-12 characters,
  3. Contain only letters (A-Z) and numbers (0-9),
  4. End with /Q for a query (search profile,
     structure, or screen set), /A for an answer
     set, or /L for an L-number list.
  5. Not already be in use as a saved name,
  6. Not be END, SAV, SAVE, SAVED
  7. Not have the form of an L-number (Lnnn).
ENTER NAME OR (END):ends/a
ANSWER SET L8 HAS BEEN SAVED AS 'ENDS/A'

=> save temp l8 onestabhits/a
ANSWER SET L8 HAS BEEN SAVED AS 'ONESTABHITS/A'

=> d l8 1-12 ti

L8   ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2007 ACS on STN
TI   Preparation of arylpyridines as inhibitors of hedgehog signalling.
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L8 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Compounds for inhibiting copper-containing amine oxidases and their use in inflammatory disease

L8 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase (HDAC) inhibitors.

L8 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging.

L8 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of thiophenedicarboxamides and related compounds as histone deacetylase (HDAC) inhibitors.

L8 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors

L8 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of alkanoic acid derivatives as novel class of cytodifferentiating agents and histone deacetylase inhibitors, and methods of use thereof

L8 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of hydroxamic acids and their use as antitumor agents

L8 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of arylhydroxamates and related compounds as potent inducers of terminal differentiation.

L8 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of alkanedicarboxylic acid amides as novel potent inducers of terminal differentiation of neoplastic cell

L8 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Nucleophilic reactions of N-hydroxy-, methoxy-, 2,3-epoxypropoxy-phthalimides

L8 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Alkanedioic acid derivatives, novel potent inducers of terminal differentiation and methods of use thereof

=> d l8 1-12 ti fbib abs it

L8 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of arylpyridines as inhibitors of hedgehog signalling.
AN 2006:238237 CAPLUS
DN 144:311912
TI Preparation of arylpyridines as inhibitors of hedgehog signalling.
IN Gunzner, Janet; Sutherlin, Daniel; Stanley, Mark; Bao, Liang; Castanedo, Georgette; Lalonde, Rebecca; Wang, Shumei; Reynolds, Mark; Savage, Scott; Malesky, Kimberly; Dina, Michael
PA Genentech, Inc., USA; Curis Incorporation
SO PCT Int. Appl., 256 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

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	WO 2006028958	A3	20060413		

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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

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OS MARPAT 144:311912

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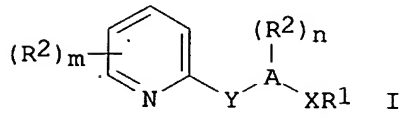

I

AB Title compds. [I; A = carbocyclyl, heterocyclyl; X = alkylene, NR4CO, NR4CS, NR4SO2, NR4PO(OH), etc.; R1 = (substituted) alkyl, carbocyclyl, heterocyclyl; R2 = halo, OH, (substituted) alkyl, acyl, alkoxy; R3 = halo, OH, CO2H, (substituted) alkyl, acyl, alkoxy, alkoxycarbonyl, carbamoyl, alkylthio, sulfinyl, sulfonyl, carbocyclyl, heterocyclyl; R4 = H, alkyl; m, n = 0-3], were prepared for treatment of cancer (no data). Thus, N-[4-chloro-3-(pyridin-2-yl)phenyl]-6-chloro-3-carboxamide and 2-morpholinoethylamine were heated in BuOH in a sealed tube to give 6-(2-morpholinoethylamino)-N-[4-chloro-3-(pyridin-2-yl)phenyl]-6-chloro-3-carboxamide.

IT Pancreas, neoplasm
(adenocarcinoma; preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Skin, neoplasm
(basal cell carcinoma, treatment; preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Carcinoma
(basal cell, treatment; preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Mammary gland, neoplasm
(carcinoma, treatment; preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Carcinoma
(mammary, treatment; preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Brain, neoplasm
(medulloblastoma, treatment; preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Carcinoma
(pancreatic adenocarcinoma; preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Antitumor agents
Drug delivery systems
Human

(preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Hedgehog protein
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Carcinoma
(pulmonary small-cell, treatment; preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Sarcoma
(rhabdomyosarcoma, treatment; preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Lung, neoplasm
(small-cell carcinoma, treatment; preparation of arylpyridines as inhibitors of hedgehog signaling)

IT Biliary tract, neoplasm
Esophagus, neoplasm
Neoplasm
Stomach, neoplasm
(treatment; preparation of arylpyridines as inhibitors of hedgehog signaling)

IT 879087-70-4P 879087-90-8P 879087-98-6P 879088-09-2P 879088-20-7P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of arylpyridines as inhibitors of hedgehog signaling)

IT 879085-20-8P 879085-21-9P 879085-22-0P 879085-23-1P 879085-24-2P
879085-25-3P 879085-26-4P 879085-27-5P 879085-28-6P 879085-29-7P
879085-30-0P 879085-31-1P 879085-32-2P 879085-33-3P 879085-34-4P
879085-35-5P 879085-36-6P 879085-37-7P 879085-38-8P 879085-39-9P
879085-40-2P 879085-41-3P 879085-42-4P 879085-43-5P 879085-44-6P
879085-45-7P 879085-46-8P 879085-47-9P 879085-48-0P 879085-49-1P
879085-50-4P 879085-51-5P 879085-52-6P 879085-53-7P 879085-54-8P
879085-55-9P 879085-56-0P 879085-57-1P 879085-58-2P 879085-59-3P
879085-60-6P 879085-61-7P 879085-62-8P 879085-63-9P 879085-64-0P
879085-65-1P 879085-66-2P 879085-67-3P 879085-68-4P 879085-69-5P
879085-70-8P 879085-71-9P 879085-72-0P 879085-73-1P 879085-74-2P
879085-75-3P 879085-76-4P 879085-77-5P 879085-78-6P 879085-79-7P
879085-80-0P 879085-81-1P 879085-82-2P 879085-83-3P 879085-84-4P
879085-85-5P 879085-86-6P 879085-87-7P 879085-88-8P 879085-89-9P
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879085-95-7P 879085-96-8P 879085-97-9P 879085-98-0P 879085-99-1P
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879086-10-9P 879086-11-0P 879086-12-1P 879086-13-2P 879086-14-3P
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879086-29-0P 879086-30-3P 879086-31-4P 879086-32-5P 879086-34-7P
879086-35-8P 879086-36-9P 879086-37-0P 879086-38-1P 879086-39-2P
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879086-60-9P 879086-61-0P 879086-62-1P 879086-63-2P 879086-64-3P
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879087-06-6P 879087-07-7P 879087-08-8P 879087-09-9P 879087-10-2P
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879087-16-8P 879087-17-9P 879087-18-0P 879087-19-1P 879087-20-4P
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879087-26-0P 879087-27-1P 879087-28-2P 879087-29-3P 879087-30-6P
879087-31-7P 879087-32-8P 879087-33-9P 879087-34-0P 879087-35-1P
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879087-41-9P 879087-42-0P 879087-43-1P 879087-44-2P 879087-45-3P
879087-46-4P 879087-47-5P 879087-48-6P 879087-49-7P 879087-50-0P
879087-51-1P 879087-52-2P 879087-53-3P 879087-54-4P 879087-55-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylpyridines as inhibitors of hedgehog signaling)

IT 879087-56-6P 879087-57-7P 879087-58-8P 879087-59-9P 879087-60-2P
879087-61-3P 879087-62-4P 879087-63-5P 879087-64-6P 879087-65-7P
879087-66-8P 879087-67-9P 879087-68-0P 879087-69-1P 879087-71-5P
879087-72-6P 879087-73-7P 879087-74-8P 879087-75-9P 879087-76-0P
879087-77-1P 879087-78-2P 879087-79-3P 879087-80-6P 879087-81-7P
879087-82-8P 879087-83-9P 879087-84-0P 879087-85-1P 879087-86-2P
879087-87-3P 879087-88-4P 879087-89-5P 879087-91-9P 879087-92-0P
879087-93-1P 879087-94-2P 879087-95-3P 879087-96-4P 879087-97-5P
879087-99-7P 879088-00-3P 879088-01-4P 879088-02-5P 879088-03-6P
879088-04-7P 879088-05-8P 879088-06-9P 879088-07-0P 879088-08-1P
879088-10-5P 879088-11-6P 879088-12-7P 879088-13-8P 879088-14-9P
879088-15-0P 879088-16-1P 879088-17-2P 879088-18-3P 879088-19-4P
879088-21-8P 879088-22-9P 879088-23-0P 879088-24-1P 879088-25-2P
879088-26-3P 879088-27-4P 879088-28-5P 879088-29-6P 879088-30-9P
879088-31-0P 879088-32-1P 879088-33-2P 879088-34-3P 879088-35-4P
879088-36-5P 879088-37-6P 879088-38-7P 879088-39-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylpyridines as inhibitors of hedgehog signaling)

IT 51-45-6, Histamine, reactions 60-24-2, 2-Mercaptoethanol 61-82-5, 3-Amino-1,2,4-triazole 62-23-7, 4-Nitrobenzoic acid 62-53-3, Aniline, reactions 67-51-6, 3,5-Dimethylpyrazole 75-03-6, Iodoethane 75-04-7, Ethylamine, reactions 75-08-1, Ethanethiol 75-31-0, Isopropylamine, reactions 75-33-2, 2-Propanethiol 75-64-9, tert-Butylamine, reactions 78-77-3, 1-Bromo-2-methylpropane 78-81-9, Isobutylamine 79-14-1, Glycolic acid, reactions 79-19-6, Thiosemicarbazide 85-41-6, Isoindoline-1,3-dione 95-72-7, 2-Chloro-1,4-dimethylbenzene 96-50-4, 2-Aminothiazole 98-88-4, Benzoyl chloride 100-09-4, 4-Methoxybenzoic acid 100-46-9, Benzylamine, reactions 103-67-3, N-Methyl-1-phenylmethanamine 103-76-4, N-(2-Hydroxyethyl)piperazine 104-63-2, 2-(Benzylamino)ethanol 104-78-9 106-93-4, 1,2-Dibromoethane 107-03-9, 1-Propanethiol 107-10-8, Propylamine, reactions 108-49-6, 2,6-Dimethylpiperazine 108-91-8, Cyclohexanamine, reactions 109-01-3, N-Methylpiperazine 109-07-9, 2-Methylpiperazine 109-85-3, 2-Methoxyethanamine 110-85-0, Piperazine, reactions 110-89-4, Piperidine, reactions 110-91-8, Morpholine, reactions 118-91-2, 2-Chlorobenzoic acid 123-00-2, N-(3-Aminopropyl)morpholine 123-75-1, Pyrrolidine, reactions 123-90-0, Thiomorpholine 138-41-0, 4-Carboxybenzenesulfonamide 141-43-5, Ethanolamine, reactions 141-91-3, 2,6-Dimethylmorpholine 142-25-6, N,N,N'-Trimethylethylenediamine 156-87-6, Propanolamine 288-13-1, 1H-Pyrazole 288-36-8, 1H-1,2,3-Triazole 288-88-0, 1H-1,2,4-Triazole 330-17-6, 4-(Trifluoromethylthio)benzoic acid 353-83-3, 2,2,2-Trifluoroethyl iodide 393-55-5, 2-Fluoronicotinic acid 462-08-8, 3-Aminopyridine 497-25-6, 2-Oxazolidone 504-29-0, 2-Aminopyridine 504-78-9, Thiazolidine 505-66-8 506-59-2, Dimethylamine hydrochloride 513-38-2, 1-Iodo-2-methylpropane 584-13-4, 4-Amino-1,2,4-triazole 586-30-1, 3-Hydroxy-4-methylbenzoic acid 593-51-1, Methylamine hydrochloride 593-56-6 594-44-5, Ethanesulfonyl chloride 598-21-0, Bromoacetyl bromide 616-45-5, 2-Pyrrolidinone 618-36-0,

1-Phenylethanamine 619-44-3, Methyl 4-iodobenzoate 619-65-8, 4-Cyanobenzoic acid 621-83-0, N-Benzylthiourea 660-68-4, Diethylamine hydrochloride 683-57-8, 2-Bromoacetamide 704-45-0, 2-Methoxy-4-methylbenzoic acid 753-90-2, 2,2,2-Trifluoroethylamine 822-36-6, 4-Methylimidazole 922-67-8, Methyl propiolate 1068-47-9, 1-Mercapto-2-propanol 1122-71-0, (6-Methylpyridin-2-yl)methanol 1129-28-8, Methyl 3-(bromomethyl)benzoate 1192-21-8, 5-Amino-1-methylpyrazole 1194-02-1, 4-Fluorobenzonitrile 1206-37-7, 4-[(Dimethylamino)sulfonyl]benzoic acid 1606-49-1, 1,4,5,6-Tetrahydropyrimidine 1664-40-0 1679-64-7, 4-(Methoxycarbonyl)benzoic acid 1779-81-3, 2-Amino-4,5-dihydrothiazole 2038-03-1, 2-Morpholinoethylamine 2417-72-3, Methyl 4-(bromomethyl)benzoate 2510-36-3, 3,5-Dimethyl-4-isoxazolecarboxylic acid 2749-11-3, (S)-2-Amino-1-propanol 2799-16-8 2799-17-9, (S)-1-Amino-2-propanol 3144-09-0, Methanesulfonamide 3179-31-5, 4H-1,2,4-Triazole-3-thiol 3222-47-7, 6-Methylnicotinic acid 3240-94-6, 4-(2-Chloroethyl)morpholine 3524-32-1, 1,3-Dimethyl-1H-pyrazol-5-amine 3731-51-9, 2-Aminomethylpyridine 3731-52-0, 3-Aminomethylpyridine 3731-53-1, 4-Aminomethylpyridine 4025-64-3, 3-(Chlorosulfonyl)benzoic acid 4066-41-5, 5-Acetylthiophene-2-carboxylic acid 4318-37-0, 1-Methyl-1,4-diazepane 4318-76-7, 2,5-Diaminopyridine 4393-16-2, (4-(Methylsulfonyl)phenyl)methaneamine 4403-69-4 4795-29-3, (Tetrahydrofuran-2-yl)methanamine 4916-55-6, 3-(Bromomethyl)pyridine hydrobromide 5036-48-6, 1-(3-Aminopropyl)imidazole 5188-07-8, Sodium thiomethoxide 5308-25-8, 1-Ethylpiperazine 5332-73-0, 3-Methoxypropylamine 5345-27-7, 3-(Methylsulfonyl)benzoic acid 5345-47-1, 2-Aminonicotinic acid 5350-93-6, 6-Chloropyridin-3-amine 5382-16-1, 4-Piperidinol 5625-67-2, 3-Oxopiperazine 6068-72-0, 4-Cyanobenzoyl chloride 6232-88-8, 4-(Bromomethyl)benzoic acid 6283-25-6, 2-Chloro-5-nitroaniline 6302-65-4, Methyl 4-mercaptobenzoate 6482-24-2, 2-Bromoethyl methyl ether 6628-77-9, 2-Methoxy-5-aminopyridine 7144-05-0, Piperidin-4-ylmethanamine 7154-73-6, N-(2-Aminoethyl)pyrrolidine 7170-01-6, 3-Methyl-1,2,4-triazole 7175-81-7 7318-00-5, Ethyl 3-aminocrotonate 7663-77-6, 1-(3-Aminopropyl)-2-pyrrolidinone 7697-27-0, 2-Bromo-4-methylbenzoic acid 7720-39-0, 2-Aminoimidazole 10130-89-9, 4-Chlorosulfonylbenzoic acid 10147-37-2, 2-Propanesulfonyl chloride 10272-07-8, 3,5-Dimethoxyaniline 13324-11-3, Methyl 2-chloro-4-nitrobenzoate 13889-98-0, N-Acetylpiperazine 13952-84-6, sec-Butylamine 14678-05-8, 5-Aminoisoxazole 15448-47-2, reactions 15715-41-0, Diethyl methylphosphonite 16088-62-3, (S)-Propylene oxide, reactions 16588-26-4, 3-Bromo-4-chloro-nitrobenzene 17213-57-9, 3,5-Dimethoxybenzoyl chloride 17570-98-8, 2-(Bromoacetyl)pyridine hydrobromide 17616-04-5, 4-(1H-Imidazol-1-yl)benzoic acid 17874-79-2, 5-(Methoxycarbonyl)picolinic acid 18358-63-9, Methyl 4-(methylamino)benzoate 18643-86-2, Dimethyl 2-bromoterephthalate 19721-22-3, 3-Mercapto-1-propanol 20780-53-4 20780-54-5, (S)-Styrene oxide 20989-17-7, (S)-2-Amino-2-phenylethanol 21035-59-6, N-Methyl-1-(pyridin-2-yl)methanamine 21655-48-1, cis-2,6-Dimethylpiperazine 23806-24-8, 3-Methyl-2-thiophenecarboxylic acid 24665-93-8, 2-Amino-4,5-dihydrooxazole 24854-43-1, 4-Methyl-4H-1,2,4-triazole-3-thiol 30609-80-4, 4-(2-Hydroxyethylthio)benzonitrile 31106-82-8, 2-(Bromomethyl)pyridine hydrobromide 31152-37-1, Thiazoline 33233-67-9 38496-18-3, 2,6-Dichloronicotinic acid 40546-33-6, 3-(1H-Imidazol-4-yl)propan-1-amine 41404-58-4, 5-Fluoro-2-bromopyridine 41838-46-4, 4-Amino-1-methylpiperidine 42860-10-6, 3-Bromo-4-chlorobenzoic acid 49773-20-8, 2-(Methylsulfonyl)ethanamine 50488-42-1, 5-Trifluoromethyl-2-bromopyridine 53250-83-2, 2-Chloro-4-methylsulfonylbenzoic acid 54453-91-7, 4-Ethyl-2-bromopyridine 55276-43-2, 1-Methylsulfonylpiperazine 55715-03-2, 4-(Bromomethyl)-3-nitrobenzoic acid 56613-80-0 57260-71-6 58757-38-3, 6-Chloronicotinoyl chloride 60166-86-1, 5-(Methylsulfonyl)thiophene-2-carboxylic acid 60702-69-4,

2-Chloro-4-fluorobenzonitrile 67832-11-5, 4-Bromo-2-methylbenzonitrile 73781-91-6, Methyl 6-chloronicotinate 74879-18-8, (S)-2-Methylpiperazine 75336-86-6 76003-29-7, tert-Butyl 3-oxopiperazine-1-carboxylate 78190-05-3, 4-(1H-Tetrazol-1-yl)benzoic acid 78358-86-8, 1-(2-Bromoethyl)-1H-pyrrole 82145-97-9, Methyl 4-((pyridin-2-ylthio)methyl)benzoate 87412-10-0, 5-Chloropyridin-2-yl trifluoromethanesulfonate 89938-62-5, 2-Chloro-5-(methylsulfonyl)benzoic acid 99636-32-5, (S)-1-Methoxy-2-propylamine 103249-79-2, 4-Methyl-2-phenyl-5-pyrimidinecarboxylic acid 113023-73-7, 4-(1-Bromoethyl)benzoic acid 119071-57-7, 6-Chloropyridin-2-yl trifluoromethanesulfonate 126456-43-7, (1S,2R)-1-Amino-2,3-dihydro-1H-inden-2-ol 133710-77-7, 2-(Pyrrolidin-2-yl)ethanamine 136030-00-7, (1R,2S)-1-Amino-2,3-dihydro-1H-inden-2-ol 147969-86-6, 4-((1-(tert-Butoxycarbonyl)piperidin-4-yl)methyl)benzoic acid 158580-87-1, Methyl 2-amino-4-(methylsulfonyl)benzoate 158581-07-8, Methyl 4-(methylsulfonyl)-2-nitrobenzoate 181772-16-7 192948-09-7, 1,2,3-Benzothiadiazole-5-carboxylic acid 199535-00-7, 4-(Methylsulfonylmethyl)benzoic acid 217073-76-2, 1-(4-Fluorophenyl)-5-methyl-1H-pyrazole-4-carboxylic acid 218777-23-2, 2-Pyridylzinc bromide 243853-14-7, 1-(4,5-Dihydro-1H-imidazol-2-yl)-3,5-dimethyl-1H-pyrazole 254910-60-6, 4-(3-Hydroxypropylthio)benzonitrile 257876-05-4, 5-Methyl-2-pyridylzinc bromide 261635-98-7, 6-(Trifluoromethyl)-2-methylpyridine-3-carbonyl chloride 281232-20-0, 6-(1H-1,2,4-Triazol-1-yl)pyridine-3-carboxylic acid 308795-91-7, 3-Methyl-2-pyridylzinc bromide 308795-93-9, 4-Methyl-2-pyridylzinc bromide 308795-98-4, 6-Methyl-2-pyridylzinc bromide 431888-57-2, 2-Chloro-4-(methoxycarbonyl)benzoic acid 431888-59-4, 4-(tert-Butoxycarbonyl)-3-chlorobenzoic acid 573764-31-5, 4-Chloro-3-iodoaniline 849774-31-8, 3-(Triisopropylsilyloxy)pyridine 879088-63-8, 5-Acetyl-N-(4-chloro-3-iodophenyl)thiophene-2-carboxamide 879088-64-9 879088-65-0 879088-66-1 879088-67-2 879088-68-3 879088-69-4 879088-70-7, 5-Phenylpyridin-2-yl trifluoromethanesulfonate 879088-71-8 879088-72-9 879088-73-0, Methyl 4-((2-hydroxypropylthio)methyl)benzoate 879088-74-1 879088-75-2 879088-76-3 879088-77-4, 4-((4H-1,2,4-Triazol-3-ylsulfonyl)methyl)benzoic acid 879088-78-5, 4-(((4-Methyl-4H-1,2,4-triazol-3-yl)sulfinyl)methyl)benzoic acid 879088-79-6, 4-(((4-Methyl-4H-1,2,4-triazol-3-yl)sulfonyl)methyl)benzoic acid 879088-80-9, 4-(Bromomethyl)-N-(3-(pyridin-2-yl)phenyl)benzamide 879088-81-0 879088-82-1, tert-Butyl 4-(bromomethyl)-2-chlorobenzoate 879088-83-2, 4-Amino-N-(4-chloro-3-(pyridin-2-yl)phenyl)benzamide 879088-84-3, Methyl 2-chloro-4-mercaptobenzoate 879088-85-4, 4-(2-Bromoethylsulfonyl)benzonitrile 879088-86-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of arylpyridines as inhibitors of hedgehog signaling)

IT 879088-87-6 879088-88-7 879088-89-8, 4-((4H-1,2,4-Triazol-3-ylsulfinyl)methyl)benzoic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of arylpyridines as inhibitors of hedgehog signaling)

IT 3556-86-3P, Methyl 3-hydroxy-4-methylbenzoate 14186-60-8P, Dimethyl 2-methylterephthalate 46004-37-9P, Methyl 4-amino-2-chlorobenzoate 74534-15-9P, 1-Chloro-2-iodo-4-nitrobenzene 88089-94-5P, Methyl 4-(bromomethyl)-3-nitrobenzoate 116934-87-3P, 4-(Methoxycarbonyl)-3-methylbenzoic acid 158580-55-3P 199535-75-6P, Methyl 4-(methylsulfonylmethyl)-3-nitrobenzoate 204568-74-1P, Methyl 3-acetoxy-4-methylbenzoate 220504-68-7P, Methyl 3-acetoxy-4-(bromomethyl)benzoate 431888-58-3P 879088-40-1P, 4-Chloro-3-(pyridin-2-yl)nitrobenzene 879088-41-2P 879088-42-3P, 3-[3,5-Bis(trifluoromethyl)phenyl]-1-bromopropane 879088-43-4P, 4-(Ethylsulfonylmethyl)benzoic acid 879088-44-5P, 4-(Dimethylcarbamoyl)-2-methylbenzoic acid 879088-45-6P, 6-(tert-Butylcarbamoyl)nicotinic acid 879088-46-7P, 6-(Pyridin-2-ylmethylcarbamoyl)nicotinic acid 879088-47-8P, 6-(Benzylcarbamoyl)nicotinic acid 879088-48-9P, 6-(6-Methoxypyridin-3-ylcarbamoyl)nicotinic acid 879088-49-0P, Methyl

4-((2-hydroxypropylsulfonyl)methyl)benzoate 879088-50-3P, 4-((2-Hydroxypropylsulfonyl)methyl)benzoic acid 879088-51-4P 879088-52-5P 879088-53-6P 879088-54-7P 879088-55-8P, Methyl 3-acetoxy-4-(methylsulfonylmethyl)benzoate 879088-56-9P, 3-Hydroxy-4-(methylsulfonylmethyl)benzoic acid 879088-57-0P 879088-58-1P 879088-59-2P, 4-(Methylsulfonylmethyl)-3-nitrobenzoic acid 879088-60-5P 879088-61-6P 879088-62-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of arylpyridines as inhibitors of hedgehog signaling)

L8 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Compounds for inhibiting copper-containing amine oxidases and their use in inflammatory disease
AN 2006:116947 CAPLUS
DN 144:205758
TI Compounds for inhibiting copper-containing amine oxidases and their use in inflammatory disease
IN Olarte, Antonio Zorzano; Mian, Alec; Clauzel, Luc Marti; Exposito, Miriam Royo; Font, Francesc Yraola; Palomera, Fernando Albericio
PA Genmedica Therapeutics SL, Spain
SO PCT Int. Appl., 78 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006013209	A2	20060209	WO 2005-EP53778	20050802
WO 2006013209	A3	20060615		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

US 2004-598010P P 20040802

OS MARPAT 144:205758
AB The present invention is directed to inhibitors of copper-containing amine oxidases (E.C.1.4.3.6) including semicarbazide-sensitive amine oxidase (SSAO; also known as vascular adhesion protein- 1, VAP-I), and their therapeutic use in inflammatory diseases, diabetes and its associated complications, atherosclerosis, neurodegenerative diseases, obesity, hypertension and cancer.
IT Inflammation
(Crohn's disease; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Intestine, disease
(Crohn's; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Blood vessel, disease
(Raynaud's phenomenon; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Tinea (skin disease)
(Tinea versicolor, pityriasis rosea; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Proteins

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(VAP-1 (vascular adhesion protein 1), inhibitors; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Pain
Respiratory distress syndrome
(acute; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Adipose tissue
(adipocyte, dysfunction; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Inflammation
Spinal column, disease
(ankylosing spondylitis; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Antiarteriosclerotics
(antiatherosclerotics; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Mouth, disease
(aphthous ulcer; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Ulcer
(aphthous; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Inflammation
Stomach, disease
(atrophic gastritis; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Infection
(bacterial, Helicobacter pylori; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Bronchi, disease
Inflammation
(bronchitis; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Ischemia
(cardiac; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Pain
(central origin; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Lung, disease
(chronic obstructive pulmonary disease; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Inflammation
Lung, disease
(chronic pneumonitis; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Dermatitis
(chronic; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Alzheimer's disease
Analgesics
Anti-Alzheimer's agents
Anti-inflammatory agents
Antiarthritics
Antiasthmatics
Antidiabetic agents
Antiglaucoma agents
Antihypertensives
Antiobesity agents
Antiparkinsonian agents
Antipyretics
Antirheumatic agents

Antitumor agents
Antiulcer agents
Arthritis
Asthma
Atherosclerosis
Bacteremia
Blood vessel, disease
Bone resorption
Bone resorption inhibitors
Celiac disease
Cystic fibrosis
Diabetes mellitus
Digestive tract, disease
Disease, animal
Drug delivery systems
Eczema
Endotoxemia
Fever and Hyperthermia
Gastrointestinal agents
Glaucoma (disease)
Gout
Human
Hypertension
Immune disease
Inflammation
Meningitis
Multiple sclerosis
Neoplasm
Nervous system agents
Obesity
Osteoarthritis
Parkinson's disease
Periodontium, disease
Psoriasis
Rheumatoid arthritis
Sepsis
(compds. for inhibiting copper-containing amine oxidases and their uses)

IT Carbohydrate metabolism
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(compds. for inhibiting copper-containing amine oxidases and their uses)

IT Eye, disease
Inflammation
(conjunctivitis; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Nervous system, disease
(degeneration; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Hydroxamic acids
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(derivs.; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Lung, disease
(farmer's lung; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Inflammation
Stomach, disease
(gastritis, varioliform; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Gingiva, disease
Inflammation
(gingivitis; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Inflammation
Intestine, disease
(ileitis; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Helicobacter pylori
(infection; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Central nervous system, disease
(inflammation; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Pain
(inflammatory pain; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Intestine, disease
(inflammatory; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Reperfusion
(injury, ischemia; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Intestine, disease
(irritable bowel syndrome; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Heart, disease
(ischemia; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Skin, disease
(lichen planus; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Angiogenesis
(neovascularization, retinal; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Nerve, disease
Pain
(neuralgia; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Nerve, disease
(neuropathy; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Eye, disease
Inflammation
(ophthalmitis; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Inflammation
Pancreas, disease
(pancreatitis; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Ulcer
(peptic; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Inflammation
Lung, disease
(pneumonitis; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Arthritis
(psoriatic arthritis; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Esophagus, disease
Inflammation
(reflux esophagitis; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Injury
(reperfusion, ischemia; compds. for inhibiting copper-containing amine oxidases and their uses)

IT Eye, disease
(retina, neovascularization; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Shock (circulatory collapse)
(septic; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Inflammation
Spinal column, disease
(spondylitis, rheumatoid; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Brain, disease
(stroke; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Digestive tract, disease
(ulcer, peptic; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Foot
(ulcer; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Inflammation
Intestine, disease
(ulcerative colitis; compds. for inhibiting copper-containing amine oxidases and their uses)
IT Eye, disease
Inflammation
(uveitis; compds. for inhibiting copper-containing amine oxidases and their uses)
IT 875518-37-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(compds. for inhibiting copper-containing aminle oxidases and their uses)
IT 116408-48-1P 130289-49-5P 154737-59-4P 327037-09-2P 327037-34-3P
875518-38-0P 875518-39-1P 875518-40-4P 875518-41-5P 875518-42-6P
875518-43-7P 875518-44-8P 875518-45-9P 875518-46-0P 875518-47-1P
875518-48-2P 875518-49-3P 875518-50-6P 875518-51-7P 875518-52-8P
875518-53-9P 875518-54-0P 875518-55-1P 875518-56-2P 875518-57-3P
875518-58-4P 875518-59-5P 875518-60-8P 875518-61-9P 875518-62-0P
875518-63-1P 875518-64-2P 875518-65-3P 875518-66-4P 875518-67-5P
875518-68-6P 875518-69-7P 875518-70-0P 875518-71-1P 875518-72-2P
875518-73-3P 875518-74-4P 875518-75-5P 875518-76-6P 875518-77-7P
875518-78-8P 875518-79-9P 875518-80-2P 875518-81-3P 875518-82-4P
875518-83-5P 875518-84-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(compds. for inhibiting copper-containing amine oxidases and their uses)
IT 174777-70-9 301527-63-9 471924-87-5 591217-29-7 591217-38-8
656261-21-1 875518-85-7 875518-86-8 875518-87-9 875518-88-0
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875518-94-8 875518-95-9 875518-96-0 875518-97-1 875518-98-2
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875520-42-6 875520-43-7 875520-44-8 875520-45-9
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875521-10-1 875521-11-2 875521-12-3 875521-13-4 875521-14-5
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(compds. for inhibiting copper-containing amine oxidases and their uses)

IT 875521-15-6 875521-16-7 875521-17-8 875521-18-9 875521-19-0
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875521-55-4 875521-56-5 875521-57-6 875521-58-7 875521-59-8
875521-60-1 875521-61-2 875521-62-3
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(compds. for inhibiting copper-containing amine oxidases and their uses)

IT 108-30-5, Succinic anhydride, reactions 5470-11-1 26588-35-2, Biphenylsulfonyl chloride 160450-13-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(compds. for inhibiting copper-containing amine oxidases and their uses)

IT 9001-53-0, Copper-containing amine oxidase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors, Semicarbazide-sensitive; compds. for inhibiting copper-containing amine oxidases and their uses)

L8 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase (HDAC) inhibitors.
AN 2005:516308 CAPLUS
DN 143:43695

TI Preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase (HDAC) inhibitors.

IN Leblond, Bertrand; Beausoleil, Eric

PA Exonhit Therapeutics S.A., Fr.

SO Eur. Pat. Appl., 50 pp.

CODEN: EPXXDW

DT Patent

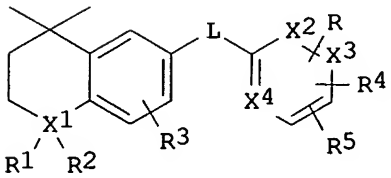
LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 1541549	A1	20050615	EP 2003-293143	20031212
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
WO 2005058803	A1	20050630	WO 2004-IB4334	20041210
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			EP 2003-293143 A	20031212
EP 1692097	A1	20060823	EP 2004-806498	20041210
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
			EP 2003-293143 A	20031212
			WO 2004-IB4334 W	20041210

OS MARPAT 143:43695

GI



I

AB Title compds. [I; R = CONR7R8, COCONR8R9, COCONHMe, COCF3, etc.; R7 = OH, OR9, 2-aminophenyl; R8, R9 = H, alkyl; X1 = C, O, N, S; R1, R2 = null, H, alkyl, 1-2 O; X2, X3 = CH, O, N; X2X3 = S, O, N; X4 = N, CH; R3-R5 = H, OH, NH2, halo, alkyl, perfluoroalkyl, etc.; L = alkylene, alkenylene, alkynylene, (aromatic) cycloalkyl, O, CO, CONH, CF2CONH, SO2NH, NMeSO2, etc.], were prepared Thus, 4-[2,2-difluoro-2-(5,5,8,8-tetramethyl-5,6,7,8-tetrahydronaphthalen-2-yl)acetylamino]benzoic acid (preparation given) was stirred with SOCl2 and cat. DMF at 0° for 1 h. The residue in CH2Cl2 was added to a mixture prepared from hydroxylamine hydrochloride, H2O, and Et3N in THF at 0° followed by stirring at 0° for 10 min. and at room temperature for 17.75 h to give 33.4% 4-[2,2-difluoro-2-(1,2,3,4-tetrahydro-1,1,4,4-tetramethylnaphthalen-7-yl)acetamido]-N-hydroxybenzamide (EHT 9299). The latter showed HDAC inhibitory activity with IC50 = 424 nM.

IT Nervous system, disease

(Huntington's chorea, treatment; preparation of tetrahydronaphthalene

hydroxamates and benzamides as histone deacetylase inhibitors)
IT Nervous system, disease
(amyotrophic lateral sclerosis, treatment; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT Intestine, neoplasm
(colon, treatment; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT Liver, disease
(fibrosis, treatment; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT Neoplasm
Neoplasm
(head and neck, treatment; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT Fibrosis
(hepatic, treatment; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT Nerve, disease
(ischemia, treatment; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT Ischemia
(neuronal, treatment; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT Lymphoma
(non-Hodgkin's, treatment; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT Drug delivery systems
Human
(preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT Acute promyelocytic leukemia
Alzheimer's disease
Bladder, neoplasm
Cirrhosis
Head and Neck, neoplasm
Head and Neck, neoplasm
Liver, neoplasm
Lung, neoplasm
Mammary gland, neoplasm
Melanoma
Multiple sclerosis
Neoplasm
Ovary, neoplasm
Pancreas, neoplasm
Parkinson's disease
Prostate gland, neoplasm
Psoriasis
(treatment; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT 149647-78-9P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(EHT 0648, reference compound; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT 149648-52-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(Suberanilic acid; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)
IT 853728-52-6P, N-(4-(Hydroxycarbamoyl)phenyl)-5,6,7,8-tetrahydro-5,5,8,8-tetramethylnaphthalene-2-carboxamide 853728-53-7P, N-(4-(2-

Aminophenylcarbamoyl)phenyl)-5,6,7,8-tetrahydro-5,5,8,8-tetramethyl-naphthalene-2-carboxamide 853728-54-8P 853728-55-9P 853728-56-0P 853728-57-1P, 4-(2,2-Difluoro-2-(1,2,3,4-tetrahydro-1,1,4,4-tetramethylnaphthalen-7-yl)acetamido)-N-hydroxybenzamide 853728-58-2P, 3-(2,2-Difluoro-2-(1,2,3,4-tetrahydro-1,1,4,4-tetramethylnaphthalen-7-yl)acetamido)-N-hydroxybenzamide 853728-59-3P, 4-((2,2-Difluoro-2-(1,2,3,4-tetrahydro-1,1,4,4-tetramethylnaphthalen-7-yl)acetamido)methyl)-N-hydroxybenzamide 853728-60-6P 853728-61-7P, N-(4-Hydroxycarbamoylphenyl)-N'-(5,5,8,8-tetramethyl-5,6,7,8-tetrahydro-naphthalen-2-yl)oxalamide
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(claimed compound; preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)

IT 56-91-7, 4-Aminomethylbenzoic acid 62-53-3, Aniline, reactions 95-54-5, 1,2-Phenylenediamine, reactions 505-48-6, Suberic acid 540-37-4, 4-Iodophenylamine 619-45-4, Methyl 4-aminobenzoate 667-27-6, Ethyl bromodifluoroacetate 1571-08-0, Methyl 4-formylbenzoate 1679-64-7, Terephthalic acid monomethyl ester 4518-10-9, Methyl 3-aminobenzoate 5781-53-3, Methyl oxalyl chloride 6683-46-1, 1,1,4,4-Tetramethyl-1,2,3,4-tetrahydronaphthalene 6683-48-3, 1,1,4,4,6-Pentamethyl-1,2,3,4-tetrahydronaphthalene
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)

IT 10521-06-9P, 2,9-Oxonanedione 18469-52-8P, Methyl 4-(aminomethyl)benzoate 92050-16-3P, 5,5,8,8-Tetramethyl-5,6,7,8-tetrahydro-naphthalen-2-ylamine 94497-53-7P 102121-54-0P 102121-59-5P 102121-60-8P 103031-30-7P, 5,5,8,8-Tetramethyl-5,6,7,8-tetrahydro-naphthalene-2-carboxylic acid 119435-90-4P 119436-52-1P 119436-53-2P 119454-82-9P 121866-06-6P 168301-01-7P 168301-02-8P 853728-62-8P 853728-63-9P 853728-64-0P 853728-65-1P 853728-66-2P 853728-67-3P 853728-68-4P 853728-69-5P 853728-70-8P 853728-71-9P 853728-72-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of tetrahydronaphthalene hydroxamates and benzamides as histone deacetylase inhibitors)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging.
AN 2005:182616 CAPLUS
DN 142:279954
TI Preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging.
IN Rho, Ho Sik; Baek, Heung Soo; Kim, Su Jong; Kim, Su Nam; Chae, Byung Geun; Lee, Byoung Seok; Kim, Bae Hwan; Choi, Gyu Ho; Son, Eui Dong; Lee, Hae Kwang; Lee, Hye Won; Cho, Jun-cheol; Kim, Duck Hee; Chang, Ih Seop; Lee, Ok Sub
PA Amorepacific Corporation, S. Korea
SO PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005019162	A1	20050303	WO 2004-KR2143	20040826

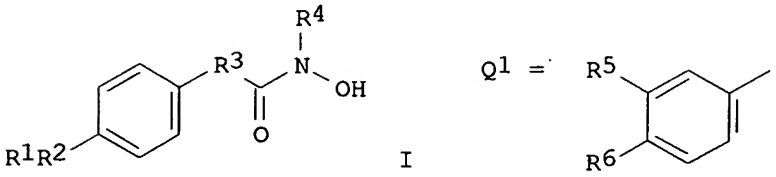
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

			KR 2003-59177	A 20030826
			KR 2004-20401	A 20040325
			KR 2004-54886	A 20040714
KR 2006005892	A	20060118	KR 2004-54886	20040714
EP 1660437	A1	20060531	EP 2004-774404	20040826
R: FR				
			KR 2003-59177	A 20030826
			KR 2004-20401	A 20040325
			KR 2004-54886	A 20040714
			WO 2004-KR2143	W 20040826
CN 1839115	A	20060927	CN 2004-80024139	20040826
			KR 2003-59177	A 20030826
			KR 2004-20401	A 20040325
			KR 2004-54886	A 20040714
			WO 2004-KR2143	W 20040826
US 2006252834	A1	20061109	US 2006-595124	20060615
			KR 2003-59177	A 20030826
			KR 2004-20401	A 20040325
			KR 2004-54886	A 20040714
			WO 2004-KR2143	W 20040826

OS MARPAT 142:279954

GI



AB Title compds. [I; R1 = adamantyl, Q1; R5, R6 = H, alkyl, cycloalkyl; R2 = CONH, NHCO, CONR7, NR7CO; R7 = alkyl; R3 = (CH)n; n = 0, 1; R4 = H, alkyl], were prepared Thus, 4-(phenylcarbonylamino)benzoic acid (preparation given) in pyridine at 10° was treated dropwise with Et chloroformate followed by stirring for 2 h at room temperature to give the anhydride. This was added to NH2OH.HCl in pyridine at 10° followed by stirring for 30 min. to give 65% N-[4-(N-hydroxycarbamoyl)phenyl]benzamide. The latter reduced collagenase expression in vitro to 78% of controls, vs. 85% for retinol.

IT Cosmetics
(creams, wrinkle-preventing; preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging)

IT Retinoid receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(ligands; preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging)

IT Cosmetics
(preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging)

IT Hydroxamic acids

RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging)

IT 9001-12-1, Collagenase 9004-06-2, Elastase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(expression inhibitors; preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging)

IT 149648-29-3P 475557-69-8P 475557-71-2P 847249-45-0P
847249-48-3P 847249-49-4P 847249-51-8P 847249-53-0P 847249-55-2P
847249-57-4P 847249-59-6P 847249-61-0P 847249-63-2P 847249-65-4P
847249-67-6P 847249-69-8P 847249-71-2P 847249-73-4P 847249-75-6P
847249-77-8P 847249-79-0P 847249-81-4P 847249-83-6P 847249-86-9P
847249-88-1P 847249-91-6P 847249-93-8P 847249-95-0P 847249-97-2P
847249-99-4P 847250-01-5P 847250-03-7P 847250-05-9P 847250-07-1P
847250-09-3P 847250-11-7P 847250-13-9P
847250-15-1P 847250-17-3P 847250-19-5P
847250-21-9P 847250-23-1P 847250-25-3P
847250-27-5P 847250-29-7P 847250-31-1P 847250-33-3P 847250-35-5P
847250-37-7P 847250-39-9P 847250-41-3P 847250-43-5P 847250-45-7P
847250-47-9P 847250-49-1P
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging)

IT 62-53-3, Aniline, reactions 65-85-0, Benzoic acid, reactions 95-64-7, 3,4-Dimethylaniline 98-73-7, 4-tert-Butylbenzoic acid 99-04-7, 3-Methylbenzoic acid 99-88-7, 4-Isopropylaniline 99-94-5, 4-Methylbenzoic acid 104-13-2, 4-Butylaniline 106-49-0, 4-Methylaniline, reactions 108-44-1, 3-Methylaniline, reactions 536-66-3, 4-Isopropylbenzoic acid 589-16-2, 4-Ethylaniline 619-04-5, 3,4-Dimethylbenzoic acid 619-45-4, Methyl 4-aminobenzoate 619-64-7, 4-Ethylbenzoic acid 768-94-5, Adamantanamine 769-92-6, 4-tert-Butylaniline 1679-64-7, Monomethylterephthalate 2438-05-3, 4-Propylbenzoic acid 2696-84-6, 4-Propylaniline 3814-10-6 4229-44-1, N-Methylhydroxylamine hydrochloride 5470-11-1 20651-71-2, 4-Butylbenzoic acid 39552-81-3, 4-Aminophenylacetic acid methyl ester 42862-36-2, Adamantanecarboxylic acid 102121-29-9 102121-30-2
121768-34-1 156811-44-8 159045-80-4 300667-13-4 303790-73-0
329940-82-1 544422-90-4 839697-12-0 847250-58-2 847250-61-7
847250-68-4 847250-70-8 847250-72-0 847250-75-3 847250-78-6
847250-80-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging)

IT 93-97-0P, Benzoic anhydride 582-80-9P 39799-73-0P 51774-36-8P
847250-53-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of arylhydroxamates as elastase and collagenase expression inhibitors for preventing skin aging)

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of thiophenedicarboxamides and related compounds as histone deacetylase (HDAC) inhibitors.
AN 2003:43028 CAPLUS
DN 138:106596
TI Preparation of thiophenedicarboxamides and related compounds as histone deacetylase (HDAC) inhibitors.
IN Leser-Reiff, Ulrike; Sattelkau, Tim; Zimmermann, Gerd
PA Hoffman-La Roche, Inc., Germany

SO U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	US 2003013757	A1	20030116	US 2002-167677		20020611
	US 6784173	B2	20040831			
				EP 2001-114496	A	20010615
	CA 2449804	A1	20030213	CA 2002-2449804		20020613
				EP 2001-114496	A	20010615
				WO 2002-EP6488	W	20020613
	WO 2003011851	A2	20030213	WO 2002-EP6488		20020613
	WO 2003011851	A3	20030918			
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW					
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG					
				EP 2001-114496	A	20010615
	EP 1401824	A2	20040331	EP 2002-791436		20020613
	EP 1401824	B1	20061025			
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR					
				EP 2001-114496	A	20010615
				WO 2002-EP6488	W	20020613
	CN 1516697	A	20040728	CN 2002-812010		20020613
				EP 2001-114496	A	20010615
	BR 2002010424	A	20040817	BR 2002-10424		20020613
				EP 2001-114496	A	20010615
				WO 2002-EP6488	W	20020613
	NZ 529874	A	20041224	NZ 2002-529874		20020613
				EP 2001-114496	A	20010615
	JP 2005502641	T	20050127	JP 2003-517043		20020613
				EP 2001-114496	A	20010615
				WO 2002-EP6488	W	20020613
	AT 343569	T	20061115	AT 2002-791436		20020613
				EP 2001-114496	A	20010615
	RU 2289580	C2	20061220	RU 2003-137578		20020613
				EP 2001-114496	A	20010615
				WO 2002-EP6488	W	20020613
	ZA 2003009260	A	20050228	ZA 2003-9260		20031127
				EP 2001-114496	A	20010615
	IN 2003CN01981	A	20060106	IN 2003-CN1981		20031211
				EP 2001-114496	A	20010615
				WO 2002-EP6488	W	20020613
	BG 108450	A	20050131	BG 2003-108450		20031215
				EP 2001-114496	A	20010615
	US 2004214862	A1	20041028	US 2004-847166		20040517
				EP 2001-114496	A	20010615
				US 2002-167677	A3	20020611
	HK 1065787	A1	20061117	HK 2004-108497		20041029
				EP 2001-114496	A	20010615
				WO 2002-EP6488	W	20020613

OS MARPAT 138:106596
AB HONHCOACONR1R2 [A = (substituted) Ph, thienyl; R1, R2 = H, (substituted) alkyl, carbocyclyl, heterocyclyl; NR1R2 = (substituted) 3-6 membered

ring], were prepared Thus, thiophene-2,5-dicarboxylic acid monomethyl ester and N-methylmorpholine in CH2Cl2 at -10° were treated with 1-aminomethylnaphthalene in CH2Cl2; the mixture was stirred 90 min to give 58% monoamide. This was stirred with NH2OH.HCl and NaOMe in MeOH for 4 h to give thiophene-2,5-dicarboxylic acid 2-hydroxyamide 5-[(naphthalen-1-ylmethyl)amide]. Tested title compds. inhibited HT-29 tumor cell growth with IC50 = 0.02-0.17 μM. A tablet formulation is given.

IT Antitumor agents
Human
(preparation of thiophenedicarboxamides and related compds. as histone deacetylase (HDAC) inhibitors)

IT Neoplasm
(treatment; preparation of thiophenedicarboxamides and related compds. as histone deacetylase (HDAC) inhibitors)

IT 487002-77-7P 487002-78-8P 487002-79-9P 487002-80-2P 487002-81-3P
487002-82-4P 487002-83-5P 487002-84-6P 487002-85-7P 487002-86-8P
487002-87-9P 487002-88-0P 487002-89-1P 487002-90-4P 487002-91-5P
487002-92-6P 487002-93-7P 487002-94-8P 487002-95-9P 487002-96-0P
487002-98-2P 487003-00-9P 487003-02-1P 487003-04-3P 487003-05-4P
487003-07-6P 487003-09-8P 487003-11-2P 487003-13-4P 487003-15-6P
487003-17-8P 487003-19-0P 487003-21-4P 487003-23-6P 487003-25-8P
487003-26-9P 487003-28-1P 487003-30-5P 487003-32-7P 487003-34-9P
487003-36-1P 487003-37-2P 487003-38-3P 487003-39-4P 487003-40-7P
487003-41-8P 487003-42-9P 487003-43-0P 487003-44-1P 487003-45-2P
487003-46-3P 487003-47-4P 487003-48-5P 487003-49-6P 487003-50-9P
487003-51-0P 487003-52-1P 487003-53-2P 487003-54-3P 487003-55-4P
487003-56-5P 487003-57-6P 487003-58-7P 487003-59-8P 487003-60-1P
487003-61-2P 487003-62-3P 487003-63-4P 487003-64-5P 487003-65-6P
487003-66-7P 487003-67-8P 487003-68-9P 487003-69-0P 487003-70-3P
487003-71-4P 487003-72-5P 487003-73-6P 487003-74-7P 487003-75-8P
487003-76-9P 487003-77-0P 487003-78-1P 487003-79-2P 487003-80-5P
487003-81-6P 487003-82-7P 487003-83-8P 487003-84-9P 487003-85-0P
487003-86-1P 487003-87-2P 487003-88-3P 487003-89-4P 487003-90-7P
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487004-01-3P 487004-02-4P 487004-03-5P 487004-04-6P 487004-05-7P
487004-06-8P 487004-07-9P 487004-08-0P 487004-09-1P 487004-10-4P
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487004-26-2P 487004-27-3P 487004-28-4P 487004-29-5P 487004-30-8P
487004-31-9P 487004-32-0P 487004-33-1P 487004-34-2P 487004-35-3P
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487004-51-3P 487004-52-4P 487004-53-5P 487004-54-6P
487004-55-7P 487004-56-8P 487004-57-9P 487004-58-0P 487004-59-1P
487004-60-4P 487004-61-5P 487004-62-6P 487004-64-8P
487004-65-9P 487004-66-0P 487004-67-1P 487004-68-2P
487004-71-7P 487004-73-9P 487004-75-1P 487004-77-3P 487004-79-5P
487004-81-9P 487004-82-0P 487004-84-2P 487004-86-4P 487004-88-6P
487004-89-7P 487004-90-0P 487004-91-1P 487004-92-2P 487004-93-3P
487004-95-5P 487004-97-7P 487010-28-6P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(claimed compound; preparation of thiophenedicarboxamides and related compds.
as histone deacetylase (HDAC) inhibitors)

IT 9076-57-7, Histone deacetylase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors; preparation of thiophenedicarboxamides and related compds. as

histone deacetylase (HDAC) inhibitors)

IT 100-21-0, Terephthalic acid, reactions 118-31-0, 1-Aminomethylnaphthalene 622-33-3, O-Benzylhydroxylamine 3858-80-8, 3,5-Dimethylbenzylamine 4152-90-3, 3-Chlorobenzylamine 18469-52-8, Methyl 4-aminomethylbenzoate 50340-79-9, Thiophene-2,5-dicarboxylic acid monomethyl ester 487005-05-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of thiophenedicarboxamides and related compds. as histone deacetylase (HDAC) inhibitors)

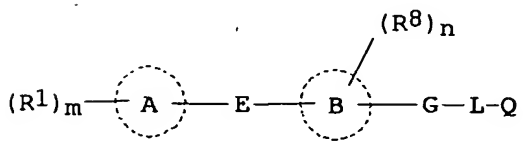
IT 487004-98-8P 487004-99-9P 487005-01-6P 487005-02-7P 487005-07-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of thiophenedicarboxamides and related compds. as histone deacetylase (HDAC) inhibitors)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors
AN 2002:736103 CAPLUS
DN 137:247516
TI Preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors
IN Naka, Masao; Takahashi, Kanji
PA Ono Pharmaceutical Co., Ltd., Japan
SO PCT Int. Appl., 194 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002074298	A1	20020926	WO 2002-JP2681	20020320
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
			JP 2001-81302	A 20010321
US 2005119305	A1	20050602	US 2003-472160	20030922
			JP 2001-81302	A 20010321
			WO 2002-JP2681	W 20020320

OS MARPAT 137:247516
GI



I

AB Interleukin 6 (IL-6) production inhibitors containing as the active ingredient hydroxamic acid derivs. (I) or equivalent thereto, non-toxic salts thereof or prodrugs of the same [R1 = C1-8 alkyl, C2-8 alkenyl or alkynyl, halo, NO2, cyano, CF3, CF3O, OR2, SR2, NR3R4, keto, cyclic group, COR5, SO2R10,

SOR10, etc.(wherein R2-R4 = H, C1-8 alkyl, C2-9 acyl, cyclic group; R5 = HO, C1-8 alkyl or alkoxy, optionally substituted NH2, cyclic group; R10 = C1-8 alkyl, cyclic group); A = single bond, C3-15 mono-, di-, or tricyclic carbocyclic ring, 5- to 18-membered mono, di-, or tricyclic heterocyclic ring containing 1-4 N, 1-2 O and/or 1-2 S atoms; E = a single bond, C1-8 alkylene, C2-8 alkenylene or alkynylene, O, SO2NH, NHSO2, CONH, NHCO, etc.; B = s single bond, C5-15 mono-, di-, or tricyclic carbocyclic ring; 5- to 18-membered mono-, di-, or tricyclic heterocyclic ring containing 1-4 N, 1-2 O and/or 1-2 S atoms; R8 = C1-8 alkyl or alkoxy, halo, NO2, cyano, CF3, CF3O, HO, C1-8 hydroxyalkyl; when E is a single bond, R1 and R8 together represents a C1-4 alkylene; n = an integer of 1-5; G = a single bond, (un)substituted NHCO or CONH, O, S, SO, SO2, (un)substituted SO2NH, CO, etc.; L = C1-8 alkylene, C2-8 alkenylene or alkynylene, C2-8 alkenylene-C2-8 alkynylene, C2-8 alkylene-C2-8 alkenylene, etc.; Q = (un)substituted CONHOH, oxiranylcarbonyl, (un)substituted SH, P(O)(OH)2 or its C1-4 alkyl ester; some proviso are given] are claimed. Because of having an IL-6 production inhibitory activity, the compds. of the general formula I are useful as preventives and/or remedies for various inflammatory diseases, sepsis, multiple myeloma, plasmacytoid leukemia, osteoporosis, cachexia, psoriasis, nephritis, kidney cell cancer, Kaposi's sarcoma, rheumatoid arthritis, hypergamma globulinemia, Castleman's disease, intra-atrial myxoma, diabetes, autoimmune diseases, hepatitis, colitis, graft-vs.-host disease, infections, endometriosis and solid cancer. The solid cancer include brain tumor, head and neck cancer, thyroid gland cancer, esophageal cancer, stomach cancer, colorectal cancer (colon cancer and rectum cancer), liver cancer, gallbladder cancer, bile duct cancer (cholangioma), pancreatic cancer, lung cancer, breast cancer, cervical cancer, uterine cancer, ovarian cancer, prostatic cancer, testicular tumor, bladder cancer, renal pelvis tumor, ureteral tumor, adrenal cancer (hypernephroma), neuroma, glioma, bone tumor, rhabdomyosarcoma, osteosarcoma, soft tissue tumor, eosinophilic granuloma, malignant melanoma, skin cancer, Wilms's tumor, etc. Thus, to a solution of 2.24 g 6-[(4-phenylbenzoyl)amino]hexanoic acid in 42 mL DMF were successively added 1-hydroxybenzotriazole hydrate 1.65, Et3N 2.91, 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride 2.07, and N-(1-methyl-1-methoxyethoxy)amine 1.14 g and stirred at room temperature for 4 h to give 1.79 g N-(1-methyl-1-methoxyethoxy)-6-[(4-phenylbenzoyl)amino]hexanamide which (1.78 g) was dissolved in 4.5 m MeOH and stirred with 4.5 mL 2 N aqueous HCl at room temperature to give N-hydroxy-6-[(4-phenylbenzoyl)amino]hexanamide (II). II in vitro inhibited the production of IL-6 in human lung epithelial cell A549 with IC50 of 0.18 μM. A tablet and an ampule formulation containing II were prepared

IT Lymph node, disease
(Castleman's; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)

IT Sarcoma
(Kaposi's; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)

IT Kidney, neoplasm
(Wilms'; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)

IT Uterus, neoplasm
(cervix; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)

IT Bile duct, neoplasm
(cholangioma; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)

IT Inflammation
Intestine, disease
(colitis; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production

inhibitors as preventives and/or remedies for diseases)
IT Intestine, neoplasm
(colon; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Intestine, neoplasm
(colorectal; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Uterus, disease
(endometriosis; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Granuloma
(eosinophilic; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Transplant and Transplantation
(graft-vs.-host reaction; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Neoplasm
(head and neck, head and neck; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Head and Neck, neoplasm
(head and neck; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Heart, disease
(intra-atrial myxoma; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Inflammation
Kidney, disease
(nephritis; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Nerve, neoplasm
(neuroma; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Bone, neoplasm
Sarcoma
(osteosarcoma; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Kidney
(pelvis, tumor; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)
IT Anti-infective agents
Anti-inflammatory agents
Antiarthritics
Antidiabetic agents
Antitumor agents
Autoimmune disease
Bladder, neoplasm
Bone, neoplasm
Brain, neoplasm
Cachexia
Diabetes mellitus
Esophagus, neoplasm
Gallbladder, neoplasm
Hepatitis
Human
Immunomodulators
Infection
Inflammation
Kidney, neoplasm
Liver, neoplasm

Lung, neoplasm
Mammary gland, neoplasm
Melanoma
Multiple myeloma
Neuroglia, neoplasm
Osteoporosis
Ovary, neoplasm
Pancreas, neoplasm
Plasma cell leukemia
Prostate gland, neoplasm
Psoriasis
Rheumatoid arthritis
Sepsis
Skin, neoplasm
Stomach, neoplasm
Testis, neoplasm
Thyroid gland, neoplasm
Urinary system, neoplasm
Uterus, neoplasm
(preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors
as preventives and/or remedies for diseases)

IT Interleukin 6
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors
as preventives and/or remedies for diseases)

IT Kidney, neoplasm
(renal cell carcinoma; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)

IT Carcinoma
(renal cell; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production
inhibitors as preventives and/or remedies for diseases)

IT Sarcoma
(rhabdomyosarcoma; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)

IT Animal tissue, disease
(soft, neoplasm; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)

IT Neoplasm
(soft-tissue; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)

IT Neoplasm
(solid; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)

IT Globulins, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(γ-, hypergammaglobulinemia; preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors as preventives and/or remedies for diseases)

IT 461404-43-3P 461405-85-6P 461405-86-7P 461405-87-8P 461405-96-9P
461406-03-1P 461406-11-1P 461406-13-3P 461406-15-5P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors
as preventives and/or remedies for diseases)

IT 85594-22-5P 91489-66-6P 114767-55-4P, y 151720-43-3P 174664-71-2P
190911-86-5P 190911-87-6P 191228-04-3P 223466-35-1P 251456-78-7P
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461404-79-5P 461404-80-8P 461404-81-9P 461404-82-0P 461404-83-1P
461404-84-2P 461404-85-3P 461404-86-4P 461404-87-5P 461404-88-6P
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461405-78-7P 461405-79-8P 461405-80-1P 461405-81-2P 461405-82-3P
461405-83-4P 461405-84-5P 461405-88-9P 461405-89-0P 461405-90-3P
461405-97-0P 461406-04-2P 461406-05-3P 461406-06-4P 461406-07-5P
461406-10-0P 461406-17-7P 461406-19-9P 461406-20-2P 461406-21-3P
461406-22-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors
as preventives and/or remedies for diseases)

IT 60-32-2, 6-Aminohexanoic acid 74-88-4, Methyl iodide, reactions 98-59-9, p-Toluenesulfonyl chloride 107-30-2, Methoxymethyl chloride 302-01-2, Hydrazine, reactions 644-08-6 762-04-9, Diethyl phosphonate 1117-97-1 1826-67-1, Vinylmagnesium bromide 2051-62-9, 4-Chlorobiphenyl 5205-39-0 6638-79-5, N-Methoxy-N-methylamine hydrochloride 7664-41-7, Ammonia, reactions 10387-40-3, Potassium thioacetate 14002-51-8, 4-Phenylbenzoyl chloride 18162-48-6, tert-Butyldimethylsilyl chloride 35444-44-1, Methyladipoyl chloride 331230-79-6 461404-44-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors
as preventives and/or remedies for diseases)

IT 91323-46-5P 251456-79-8P 331230-81-0P 331231-44-8P 461405-91-4P
461405-92-5P 461405-93-6P 461405-94-7P 461405-95-8P 461405-98-1P
461405-99-2P 461406-01-9P 461406-02-0P 461406-08-6P 461406-09-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of N-acylaminoalkanehydroxamic acids as IL-6 production inhibitors
as preventives and/or remedies for diseases)

RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of alkanoic acid derivatives as novel class of cytodifferentiating agents and histone deacetylase inhibitors, and methods of use thereof

AN 2001:185885 CAPLUS
DN 134:237397
TI Preparation of alkanoic acid derivatives as novel class of cytodifferentiating agents and histone deacetylase inhibitors, and methods of use thereof
IN Richon, Victoria M.; Marks, Paul A.; Rifkind, Richard A.; Breslow, Ronald; Belvedere, Sandro; Gershell, Leland; Miller, Thomas A.
PA Sloan-Kettering Institute for Cancer Research, USA; Trustees of Columbia University in the City of New York
SO PCT Int. Appl., 142 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 2001018171	A2	20010315	WO 2000-US23232		20000824
	WO 2001018171	A3	20020627			
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW					
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG					
				US 1999-152755P	P	19990908
				US 2000-208688P	P	20000601
	CA 2383999	A1	20010315	CA 2000-2383999		20000824
				US 1999-152755P	P	19990908
				US 2000-208688P	P	20000601
				WO 2000-US23232	W	20000824
	AU 200069327	A	20010410	AU 2000-69327		20000824
				US 1999-152755P	P	19990908
				US 2000-208688P	P	20000601
				WO 2000-US23232	W	20000824
	EP 1231919	A2	20020821	EP 2000-957757		20000824
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL					
				US 1999-152755P	P	19990908
				US 2000-208688P	P	20000601
				WO 2000-US23232	W	20000824
	BR 2000014254	A	20020827	BR 2000-14254		20000824
				US 1999-152755P	P	19990908
				US 2000-208688P	P	20000601
				WO 2000-US23232	W	20000824
	HU 200202707	A2	20021228	HU 2002-2707		20000824
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				US 2000-208688P	P	20000601
				WO 2000-US23232	W	20000824
	US 6511990	B1	20030128	US 2000-645430		20000824
				US 1999-152755P	P	19990908
				US 2000-208688P	P	20000601
	JP 2003509343	T	20030311	JP 2001-522383		20000824
				US 1999-152755P	P	19990908
				US 2000-208688P	P	20000601
				WO 2000-US23232	W	20000824
	NZ 517613	A	20040130	NZ 2000-517613		20000824
				US 1999-152755P	P	19990908
				US 2000-208688P	P	20000601
				WO 2000-US23232	W	20000824
	ZA 2002001544	A	20021010	ZA 2002-1544		20020225

			US 1999-152755P	P	19990908
US 2004002506	A1	20040101	US 2002-281875		20021025
US 7126001	B2	20061024			
			US 1999-152755P	P	19990908
			US 2000-208688P	P	20000601
			US 2000-645430	A1	20000824
AU 2005205805	A1	20050929	AU 2005-205805		20050902
			AU 2000-69327	A3	20000824
US 2006241129	A1	20061026	US 2006-474043		20060622
			US 1999-152755P	P	19990908
			US 2000-208688P	P	20000601
			US 2000-645430	A1	20000824
			US 2002-281875	A3	20021025
US 2007010536	A1	20070111	US 2006-473839		20060622
			US 1999-152755P	P	19990908
			US 2000-208688P	P	20000601
			US 2000-645430	A1	20000824
			US 2002-281875	A3	20021025
US 2007010669	A1	20070111	US 2006-474042		20060622
			US 1999-152755P	P	19990908
			US 2000-208688P	P	20000601
			US 2000-645430	A1	20000824
			US 2002-281875	A1	20021025

OS MARPAT 134:237397

AB The present invention provides the compound having formula R1NHCOCH(AR2)(CH2)nCONHOH (wherein each of R1 and R2 is, substituted or unsubstituted, aryl, cycloalkyl, cycloalkylamino, naphtha, pyridineamino, piperidino, tert-Bu, aryloxy, arylalkyloxy, or pyridine group; wherein A is an amido moiety, O, S, NH, or CH2; and wherein n is an integer from 3 to 8). The present invention also provides a method of selectively inducing growth arrest, terminal differentiation and/or apoptosis of neoplastic cells and thereby inhibiting proliferation of such cells. Moreover, the present invention provides a method of treating a patient having a tumor characterized by proliferation of neoplastic cells. Lastly, the present invention provides a pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically acceptable amount of the compound above. Thus, N-benzoyl-L-α-aminosuberateanilide, i.e. PhCO-Asu-NHPh, was condensed with tert-butyldiphenylsilyloxyamine using 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide hydrochloride in CH2Cl2 at room temperature for 12 h, followed by deprotection with 5% CF3CO2H in CH2Cl2 for 1.5 h to give PhCO-Asu(NHOH)-NHPh (I). I and PhCH2O2C-Asu(NHOH)-NHR (R = quinolin-8-yl) showed activity of murine erythroleukemia cell (MEL) differentiation at 200 and 40 nM, resp., and inhibited histone deacetylase (HDAC) with ID50 of 1 and <10 nM, resp.

IT Apoptosis
(neoplastic cells; preparation of alkanoic acid derivs. as novel class of cytodifferentiating agents and histone deacetylase inhibitors)

IT Antitumor agents
Cell differentiation
(preparation of alkanoic acid derivs. as novel class of cytodifferentiating agents and histone deacetylase inhibitors)

IT Fatty acids, preparation
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of alkanoic acid derivs. as novel class of cytodifferentiating agents and histone deacetylase inhibitors)

IT 7661-21-4P 149647-78-9P 149647-93-8P 149648-28-2P 329966-64-5P
329966-65-6P 329966-66-7P 329966-67-8P 329966-68-9P 329966-69-0P
329966-70-3P 329966-71-4P 329966-72-5P 329966-73-6P 329966-74-7P
329966-75-8P 329966-76-9P 329966-77-0P 329966-78-1P 329966-79-2P
329966-80-5P 329966-81-6P 329966-82-7P 329966-83-8P 329966-84-9P

329966-85-0P 329966-86-1P 329966-87-2P 329966-88-3P
329966-89-4P 329966-90-7P 329966-91-8P 329966-92-9P 329966-93-0P
329966-97-4P 329966-98-5P 329967-00-2P 329967-01-3P 329967-02-4P
329967-03-5P 329967-19-3P 329967-25-1P 329967-32-0P 329967-33-1P
329967-34-2P 329967-35-3P 329967-36-4P 329967-37-5P 329967-38-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of alkanoic acid derivs. as novel class of cytodifferentiating agents and histone deacetylase inhibitors)

IT 9076-57-7, Histone deacetylase
RL: BPR (Biological process); BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study); PROC (Process)
(preparation of alkanoic acid derivs. as novel class of cytodifferentiating agents and histone deacetylase inhibitors)

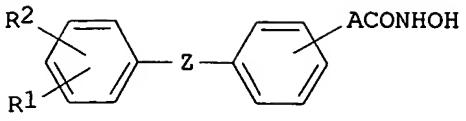
IT 60-32-2, 6-Aminohexanoic acid 62-53-3, Aniline, reactions 65-85-0, Benzoic acid, reactions 100-61-8, N-Methylaniline, reactions 124-63-0, Methanesulfonyl chloride 407-25-0, Trifluoroacetic anhydride 541-16-2, Di-tert-butyl malonate 578-66-5, 8-Aminoquinoline 591-80-0, 4-Pentenoic acid 813-77-4, Dimethyl chlorophosphate 3946-32-5, Suberic acid monomethyl ester 10387-40-3, Potassium thioacetate 22809-37-6, 6-Bromohexanoyl chloride 49616-61-7, Methyl 6-bromo-2,4-hexadienoate 49645-27-4 103587-51-5, tert-Butyldiphenylsilyloxyamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of alkanoic acid derivs. as novel class of cytodifferentiating agents and histone deacetylase inhibitors)

IT 6404-29-1P, 6-(tert-Butoxycarbonylamino)hexanoic acid 41624-92-4P 56911-48-9P 58804-62-9P 70374-95-7P 105612-01-9P 174784-94-2P 329966-94-1P 329966-95-2P 329966-96-3P 329966-99-6P 329967-04-6P 329967-05-7P 329967-06-8P 329967-07-9P 329967-08-0P 329967-09-1P 329967-10-4P 329967-11-5P 329967-12-6P 329967-13-7P 329967-14-8P 329967-15-9P 329967-17-1P 329967-18-2P 329967-20-6P 329967-21-7P 329967-22-8P 329967-23-9P 329967-24-0P 329967-26-2P 329967-27-3P 329967-28-4P 329967-29-5P 329967-30-8P 329967-31-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of alkanoic acid derivs. as novel class of cytodifferentiating agents and histone deacetylase inhibitors)

L8 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of hydroxamic acids and their use as antitumor agents
AN 1998:430728 CAPLUS
DN 129:148826
TI Preparation of hydroxamic acids and their use as antitumor agents
IN Suzuki, Tsuneji; Tsuchiya, Katsutoshi; Saito, Akiko; Yamashita, Satoshi
PA Mitsui Petrochemical Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10182583	A	19980707	JP 1996-345797	19961225
			JP 1996-345797	19961225

OS MARPAT 129:148826
GI



I

AB Hydroxamic acids I [A = CH2CH2, CH:CH, C.tplbond.C; R1, R2 = H, NH2, NO2, OH, halo, C1-4 alkyl, C1-4 alkoxy, C1-4 (di)alkylamino, C1-4 alkylthio; Z = bond, CO, NHCO, CH2; the bond A is at meta or para position against the terminal benzene ring] and their pharmacol. acceptable salts are prepared Amidation of 3-[4-(N,N-dimethyl)amino]benzoylcinnamic acid with H2NOH.HCl gave the corresponding hydroxamic acid with 14% yield, which at 1 μM induced differentiation of A2780 cell.

IT Cell differentiation
(inducers; preparation of hydroxamic acids as antitumor agents)

IT Antitumor agents
(preparation of hydroxamic acids as antitumor agents)

IT 191228-41-8P 210705-43-4P 210705-44-5P 210705-45-6P 210705-46-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of hydroxamic acids as antitumor agents)

IT 210705-56-9
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(preparation of hydroxamic acids as antitumor agents)

IT 88-74-4, 2-Nitroaniline 98-88-4, Benzoyl chloride 107-21-1, 1,2-Ethanediol, reactions 619-66-9, Terephthalaldehydic acid 619-84-1 1099-45-2 1122-91-4, 4-Bromobenzaldehyde 3132-99-8, 3-Bromobenzaldehyde 5470-11-1, Hydroxylamine hydrochloride 13026-23-8, 4-Phenylcinnamic acid
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of hydroxamic acids as antitumor agents)

IT 10602-01-4P, 2-(4-Bromophenyl)-1,3-dioxolane 17789-14-9P, 2-(3-Bromophenyl)-1,3-dioxolane 71856-95-6P, 3-Benzoylbenzaldehyde 96251-93-3P 209784-99-6P 210705-47-8P 210705-48-9P 210705-49-0P 210705-50-3P 210705-51-4P 210705-52-5P 210705-53-6P 210705-54-7P 210705-55-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of hydroxamic acids as antitumor agents)

L8 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of arylhydroxamates and related compounds as potent inducers of terminal differentiation.
AN 1998:8261 CAPLUS
DN 128:75197
TI Preparation of arylhydroxamates and related compounds as potent inducers of terminal differentiation.
IN Breslow, Ronald; Marks, Paul A.; Rifkind, Richard A.
PA Sloan-Kettering Institute for Cancer Research, USA
SO U.S., 24 pp., Cont.-in-part of U.S. 5,369,108.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5700811	A	19971223	US 1994-246363	19940519

				US 1991-771760	A2	19911004
US 5369108	A	19941129		US 1991-771760		19911004
AT 183185	T	19990815		AT 1992-922033		19921005
				US 1991-771760	A	19911004
ES 2134815	T3	19991016		ES 1992-922033		19921005
				US 1991-771760	A	19911004
JP 2003226680	A	20030812		JP 2002-337049		19921005
				US 1991-771760	A	19911004
				JP 1993-507109	A3	19921005
US 5932616	A	19990803		US 1994-222685		19940404
				US 1991-771760	A3	19911004
CA 2190765	A1	19951130		CA 1995-2190765		19950519
				US 1994-246363	A	19940519
WO 9531977	A1	19951130		WO 1995-US6554		19950519
W: AU, CA, JP, MX						
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE						
				US 1994-246363	A	19940519
AU 9526474	A	19951218		AU 1995-26474		19950519
AU 692561	B2	19980611				
				US 1994-246363	A	19940519
				WO 1995-US6554	W	19950519
EP 760657	A1	19970312		EP 1995-921378		19950519
EP 760657	B1	20031112				
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE						
				US 1994-246363	A	19940519
				WO 1995-US6554	W	19950519
AT 253906	T	20031115		AT 1995-921378		19950519
				US 1994-246363	A	19940519
				WO 1995-US6554	W	19950519
ES 2210293	T3	20040701		ES 1995-921378		19950519
				US 1994-246363	A	19940519
AU 9662063	A	19961017		AU 1996-62063		19960813
AU 708115	B2	19990729				
				US 1991-771760	A	19911004
US 6087367	A	20000711		US 1999-314195		19990518
				US 1991-771760	A3	19911004
				US 1994-222685	A1	19940404
US 38506	E1	20040420		US 2001-4411		20011102
				US 1991-771760	A5	19911004

PATENT FAMILY INFORMATION:

FAN 1993:538765

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 9307148	A1	19930415	WO 1992-US8454		19921005
	W: AU, CA, FI, HU, JP, KR, NO, RU					
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE					
				US 1991-771760	A	19911004
	US 5369108	A	19941129	US 1991-771760		19911004
	AU 9228703	A	19930503	AU 1992-28703		19921005
	AU 668696	B2	19960516			
				US 1991-771760	A	19911004
				WO 1992-US8454	A	19921005
	EP 642509	A1	19950315	EP 1992-922033		19921005
	EP 642509	B1	19990811			
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE					
				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	JP 07502494	T	19950316	JP 1993-507109		19921005
	JP 3432823	B2	20030804			
				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	HU 67421	A2	19950428	HU 1994-959		19921005
	HU 225497	B1	20070129			

				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	RU 2128643	C1	19990410	RU 1994-21660		19921005
				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	AT 183185	T	19990815	AT 1992-922033		19921005
				US 1991-771760	A	19911004
	ES 2134815	T3	19991016	ES 1992-922033		19921005
				US 1991-771760	A	19911004
	JP 2003226680	A	20030812	JP 2002-337049		19921005
				US 1991-771760	A	19911004
				JP 1993-507109	A3	19921005
	CA 2120619	C	20061121	CA 1992-2120619		19921005
				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	NO 9401166	A	19940530	NO 1994-1166		19940329
				US 1991-771760	A	19911004
				WO 1992-US8454	A	19921005
	FI 9401537	A	19940531	FI 1994-1537		19940331
				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	US 5932616	A	19990803	US 1994-222685		19940404
				US 1991-771760	A3	19911004
	AU 9662063	A	19961017	AU 1996-62063		19960813
	AU 708115	B2	19990729			
				US 1991-771760	A	19911004
	US 6087367	A	20000711	US 1999-314195		19990518
				US 1991-771760	A3	19911004
				US 1994-222685	A1	19940404
	US 38506	E1	20040420	US 2001-4411		20011102
				US 1991-771760	A5	19911004

FAN 1996:181546

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 9531977	A1	19951130	WO 1995-US6554		19950519
	W: AU, CA, JP, MX					
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
				US 1994-246363	A	19940519
	US 5700811	A	19971223	US 1994-246363		19940519
				US 1991-771760	A2	19911004
	AU 9526474	A	19951218	AU 1995-26474		19950519
	AU 692561	B2	19980611			
				US 1994-246363	A	19940519
				WO 1995-US6554	W	19950519
	EP 760657	A1	19970312	EP 1995-921378		19950519
	EP 760657	B1	20031112			
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
				US 1994-246363	A	19940519
				WO 1995-US6554	W	19950519
	AT 253906	T	20031115	AT 1995-921378		19950519
				US 1994-246363	A	19940519
				WO 1995-US6554	W	19950519

OS MARPAT 128:75197

AB R1CO(CH2)nCOR2 [R1 = R2 = (substituted) arylamino, cycloalkylamino, pyridineamino, piperidino, 9-purine-6-amino, thiazoleamino; or R1 ≠ R2 and R1 = NR3R4; R3, R4 = H, OH, (substituted) alkyl, alkenyl, cycloalkyl, aryl, alkoxy, aryloxy, aralkoxy, pyridyl; R3R4N = piperidino; n = 4-8; R2 = hydroxylamino, OH, amino, alkoxy], and related compds., were prepared Thus, 3-HONHCOC6H4CH:CHCONHOH (prepared by reaction of H2NOSiMe3 with the corresponding diacid dichloride) induced terminal differentiation with an optimal concentrate of 4 μM with 73% benzidine reactive cells.

IT Cell differentiation

(inducers of terminal differentiation of neoplastic cells; preparation of

arylhydroxamates and related compds. as potent inducers of terminal differentiation)

IT Antitumor agents
(preparation of arylhydroxamates and related compds. as potent inducers of terminal differentiation)

IT 5502-67-0P 39642-93-8P 149647-78-9P 149647-81-4P 149647-82-5P
149647-83-6P 149647-85-8P 149647-86-9P 149647-87-0P 149647-88-1P
149647-89-2P 149647-90-5P 149647-91-6P 149647-96-1P 149647-97-2P
149647-98-3P 149648-24-8P 149648-29-3P 149648-30-6P
149648-31-7P 149648-32-8P 149648-39-5P 149648-46-4P 149648-49-7P
149648-50-0P 149648-52-2P 149648-54-4P 149648-56-6P 149648-57-7P
149648-68-0P 149648-69-1P 174664-65-4P 174664-66-5P 174664-68-7P
174664-70-1P 174664-71-2P 200800-88-0P 200800-89-1P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylhydroxamates and related compds. as potent inducers of terminal differentiation)

IT 60-32-2, 6-Aminocaproic acid 62-53-3, Benzenamine, reactions 98-88-4, Benzoyl chloride 100-20-9, 1,4-Benzenedicarbonyl dichloride 504-24-5, 4-Aminopyridine 622-33-3, O-Benzylhydroxylamine 929-17-9, 7-Aminoheptanoic acid 2687-43-6, O-Benzylhydroxylamine hydrochloride 3946-32-5, Suberic acid monomethyl ester 10027-07-3, Suberoyl chloride 16323-43-6, 1,4-Phenylenediacrylic acid 22737-36-6, O-Trimethylsilylhydroxylamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of arylhydroxamates and related compds. as potent inducers of terminal differentiation)

IT 1149-15-1P, 7-(Benzoylamino)heptanoic acid 94136-35-3P, N-Benzyloxy-6-bromohexanamide 99647-94-6P 149648-51-1P, N-Benzyloxy-6-cyanohexanamide 200800-91-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of arylhydroxamates and related compds. as potent inducers of terminal differentiation)

L8 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of alkanedicarboxylic acid amides as novel potent inducers of terminal differentiation of neoplastic cell
AN 1996:181546 CAPLUS
DN 124:260602
TI Preparation of alkanedicarboxylic acid amides as novel potent inducers of terminal differentiation of neoplastic cell
IN Breslow, Ronald; Marks, Paul A.; Rifkind, Richard A.
PA Sloan-Kettering Institute for Cancer Research, USA; Trustees of Columbia University in the City of New York
SO PCT Int. Appl., 98 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9531977	A1	19951130	WO 1995-US6554	19950519
W: AU, CA, JP, MX				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
			US 1994-246363 A	19940519
US 5700811	A	19971223	US 1994-246363	19940519
			US 1991-771760 A2	19911004
AU 9526474	A	19951218	AU 1995-26474	19950519
AU 692561	B2	19980611		
			US 1994-246363 A	19940519
			WO 1995-US6554 W	19950519

	EP 760657	A1	19970312	EP 1995-921378		19950519
	EP 760657	B1	20031112			
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE					
				US 1994-246363	A	19940519
				WO 1995-US6554	W	19950519
	AT 253906	T	20031115	AT 1995-921378		19950519
				US 1994-246363	A	19940519
				WO 1995-US6554	W	19950519

PATENT FAMILY INFORMATION:

FAN 1993:538765

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 9307148	A1	19930415	WO 1992-US8454		19921005
	W: AU, CA, FI, HU, JP, KR, NO, RU					
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE					
				US 1991-771760	A	19911004
	US 5369108	A	19941129	US 1991-771760		19911004
	AU 9228703	A	19930503	AU 1992-28703		19921005
	AU 668696	B2	19960516			
				US 1991-771760	A	19911004
				WO 1992-US8454	A	19921005
	EP 642509	A1	19950315	EP 1992-922033		19921005
	EP 642509	B1	19990811			
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE					
				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	JP 07502494	T	19950316	JP 1993-507109		19921005
	JP 3432823	B2	20030804			
				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	HU 67421	A2	19950428	HU 1994-959		19921005
	HU 225497	B1	20070129			
				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	RU 2128643	C1	19990410	RU 1994-21660		19921005
				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	AT 183185	T	19990815	AT 1992-922033		19921005
				US 1991-771760	A	19911004
	ES 2134815	T3	19991016	ES 1992-922033		19921005
				US 1991-771760	A	19911004
	JP 2003226680	A	20030812	JP 2002-337049		19921005
				US 1991-771760	A	19911004
				JP 1993-507109	A3	19921005
	CA 2120619	C	20061121	CA 1992-2120619		19921005
				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	NO 9401166	A	19940530	NO 1994-1166		19940329
				US 1991-771760	A	19911004
				WO 1992-US8454	A	19921005
	FI 9401537	A	19940531	FI 1994-1537		19940331
				US 1991-771760	A	19911004
				WO 1992-US8454	W	19921005
	US 5932616	A	19990803	US 1994-222685		19940404
				US 1991-771760	A3	19911004
	AU 9662063	A	19961017	AU 1996-62063		19960813
	AU 708115	B2	19990729			
				US 1991-771760	A	19911004
	US 6087367	A	20000711	US 1999-314195		19990518
				US 1991-771760	A3	19911004
				US 1994-222685	A1	19940404
	US 38506	E1	20040420	US 2001-4411		20011102
				US 1991-771760	A5	19911004

FAN 1998:8261

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5700811	A	19971223	US 1994-246363	19940519
				US 1991-771760 A2	19911004
	US 5369108	A	19941129	US 1991-771760	19911004
	AT 183185	T	19990815	AT 1992-922033	19921005
				US 1991-771760 A	19911004
	ES 2134815	T3	19991016	ES 1992-922033	19921005
				US 1991-771760 A	19911004
	JP 2003226680	A	20030812	JP 2002-337049	19921005
				US 1991-771760 A	19911004
				JP 1993-507109 A3	19921005
	US 5932616	A	19990803	US 1994-222685	19940404
				US 1991-771760 A3	19911004
	CA 2190765	A1	19951130	CA 1995-2190765	19950519
				US 1994-246363 A	19940519
	WO 9531977	A1	19951130	WO 1995-US6554	19950519
	W: AU, CA, JP, MX				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				US 1994-246363 A	19940519
	AU 9526474	A	19951218	AU 1995-26474	19950519
	AU 692561	B2	19980611		
				US 1994-246363 A	19940519
				WO 1995-US6554 W	19950519
	EP 760657	A1	19970312	EP 1995-921378	19950519
	EP 760657	B1	20031112		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
				US 1994-246363 A	19940519
				WO 1995-US6554 W	19950519
	AT 253906	T	20031115	AT 1995-921378	19950519
				US 1994-246363 A	19940519
				WO 1995-US6554 W	19950519
	ES 2210293	T3	20040701	ES 1995-921378	19950519
				US 1994-246363 A	19940519
	AU 9662063	A	19961017	AU 1996-62063	19960813
	AU 708115	B2	19990729		
				US 1991-771760 A	19911004
	US 6087367	A	20000711	US 1999-314195	19990518
				US 1991-771760 A3	19911004
				US 1994-222685 A1	19940404
	US 38506	E1	20040420	US 2001-4411	20011102
				US 1991-771760 A5	19911004

OS MARPAT 124:260602

AB Alkanedicarboxylic acid amides R1CO(CH2)nCOR2 [I; wherein each of R1 and R2 are independently the same or different from each other; R1 and R2 are the same, each is a substituted or unsubstituted arylamino, cycloalkylamino, pyridineamino, piperidino, 9-purine-6-amine, or thiazoleamino group; when R1 and R2 are different, R1 = R3-NR4, wherein each of R3 and R4 are independently the same as or different from each other and are H, HO, (un)substituted, branched or unbranched alkyl, alkenyl, cycloalkyl, aryl, alkyloxy, aryloxy, arylalkyloxy, or pyridine group, or R3 and R4 bond together to form a piperidine group and R2 is a hydroxylamino, HO, NH2, alkylamino, dialkylamino or alkyloxy group; n = an integer from about 4-8], which inhibit proliferation of such cells and are useful for treating a patient having a tumor characterized by proliferation of neoplastic cells, are prepared Thus, chlorination of suberic acid monomethyl ester with oxalyl chloride benzene containing DMF to suberoyl chloride followed by condensation with O-benzylhydroxylamine in pyridine/CHCl3 at room temperature overnight gave 89% PhCH2ONHCO(CH2)6CO2Me. Hydrogenolysis of the latter compound in the presence of 5% Pd-C under .apprx.50 psi H atmospheric to HONHC(O)(CH2)6CO2Me followed by saponification with KOH in

aqueous MeOH under reflux for 2 h and acidification with concentrated HCl gave HONHC(O)(CH2)6CO2H. PhONHC(O)(CH2)6C(O)NHOH at 3 μM in vitro induced the differentiation of MELC cells and HL-60 human leukemia cells by 21 and 65%, resp.

IT Cell differentiation
Neoplasm
Neoplasm inhibitors
(preparation of alkanedicarboxylic acid amides as inducers of terminal differentiation of neoplastic cell and as anticancer agents)

IT 5502-67-0P 20073-81-8P 39642-93-8P 56384-27-1P 136268-94-5P
149647-77-8P 149647-78-9P 149647-79-0P 149647-80-3P 149647-81-4P
149647-82-5P 149647-83-6P 149647-84-7P 149647-85-8P 149647-86-9P
149647-87-0P 149647-89-2P 149647-90-5P 149647-91-6P 149647-92-7P
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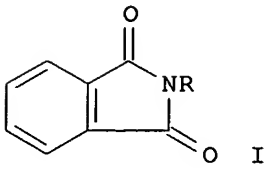
149648-28-2P 149648-29-3P 149648-30-6P 149648-31-7P
149648-32-8P 149648-33-9P 149648-34-0P 149648-35-1P 149648-36-2P
149648-37-3P 149648-38-4P 149648-39-5P 149648-40-8P 149648-41-9P
149648-42-0P 149648-43-1P 149648-44-2P 149648-45-3P 149648-46-4P
149648-47-5P 149648-48-6P 149648-49-7P 149648-50-0P 149648-52-2P
149648-54-4P 149648-56-6P 149648-57-7P 149648-60-2P 149648-65-7P
149648-68-0P 149648-69-1P 174664-65-4P 174664-66-5P 174664-67-6P
174664-68-7P 174664-69-8P 174664-70-1P 174664-71-2P 174664-72-3P
174664-73-4P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of alkanedicarboxylic acid amides as inducers of terminal differentiation of neoplastic cell and as anticancer agents)

IT 60-32-2, 6-Aminocaproic acid 62-53-3, Aniline, reactions 98-88-4, Benzoyl chloride 100-20-9, Terephthaloyl chloride 100-61-8, N-Methylaniline, reactions 143-33-9, Sodium cyanide 504-24-5, 4-Aminopyridine 506-59-2, Dimethylamine hydrochloride 622-33-3, O-Benzylhydroxylamine 929-17-9, 7-Aminoheptanoic acid 2687-43-6, O-Benzylhydroxylamine hydrochloride 2909-38-8, m-Chlorophenyl isocyanate 3946-32-5, Suberic acid monomethyl ester 5470-11-1, Hydroxylamine hydrochloride 16323-43-6, 1,4-Phenylenediacrylic acid 22737-36-6, O-(Trimethylsilyl)hydroxylamine 22809-37-6, 6-Bromohexanoyl chloride 149648-51-1, N-Benzyloxy-6-cyanohexanamide
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of alkanedicarboxylic acid amides as inducers of terminal differentiation of neoplastic cell and as anticancer agents)

IT 1149-15-1P, 7-Benzamidoheptanoic acid 10027-07-3P, Suberoyl chloride 94136-35-3P, N-Benzyloxy-6-bromohexanamide 149647-88-1P 174664-74-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of alkanedicarboxylic acid amides as inducers of terminal differentiation of neoplastic cell and as anticancer agents)

L8 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Nucleophilic reactions of N-hydroxy-, methoxy-, 2,3-epoxypropoxy-phthalimides
AN 1995:237245 CAPLUS
DN 122:239480
TI Nucleophilic reactions of N-hydroxy-, methoxy-, 2,3-epoxypropoxy-phthalimides
AU Ranadive, V. B.; Khadilkar, B. M.; Samant, S. D.
CS Org. Chem. Res. Lab., Univ. Dep. Chem. Technol., Bombay, 400 019, India

SO Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1994), 33B(12), 1175-7
CODEN: IJSBDB; ISSN: 0376-4699
PB Publications & Information Directorate, CSIR
DT Journal
LA English
GI



I

AB Reaction of N-hydroxyphthalimide (I, R = OH) with equivalent amts. of aliphatic and aromatic primary amines gives the N-substituted phthalimides I (R = PhCH2, CH2CH2Ph, Ph, CMe3, 4-Me6H4, etc.), while with excess of these amines it gives the diamides of phthalic acid, 1,2-(RNHCO)2C6H4 [R = CH2Ph, CH2CH2Ph, CHMe2, CH2CH2Me, CH2(CH2)2Me]. The reaction of I (R = OH) with t-Bu amine gives only the Bu monoamide of phthaloylhydroxamic acid. N-methoxyphthalimide reacts in the same manner. I (R = OH) does not condense with epichlorohydrin, but condenses with epibromohydrin to give N-(2,3-epoxypropoxy)phthalimide (II) which on reaction with equivalent amts. of aliphatic primary amines gives the N-substituted phthalimides and with excess of the amines it gives the diamides of phthalic acid. The reaction of II with aromatic primary amines gives only the N-arylphthalimides. Secondary amines do not react with II.

IT 62-53-3, Aniline, reactions 64-04-0, 2-Phenyl-1-ethylamine 75-31-0, Isopropylamine, reactions 75-64-9, tert-Butylamine, reactions 85-44-9, Phthalic anhydride 95-53-4, 2-Methylaniline, reactions 100-46-9, Benzylamine, reactions 106-49-0, 4-Methylaniline, reactions 107-10-8, 1-Propanamine, reactions 109-73-9, 1-Butanamine, reactions 3132-64-7, Epibromhydrin
RL: RCT (Reactant); RACT (Reactant or reagent)
(nucleophilic reactions of N-hydroxy-, methoxy-, and (epoxypropoxy)-phthalimides)

IT 524-38-9P, N-Hydroxyphthalimide 1914-20-1P, N-Methoxyphthalimide 58288-28-1P, 1H-Isoindole-1,3(2H)-dione, 2-hydroxy-, potassium salt 80041-90-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(nucleophilic reactions of N-hydroxy-, methoxy-, and (epoxypropoxy)-phthalimides)

IT 304-17-6P, N-Isopropylphthalimide 520-03-6P, N-Phenylphthalimide 1515-72-6P, N-Butylphthalimide 2141-99-3P, N-tert-Butylphthalimide 2142-01-0P, N-Benzylphthalimide 2142-03-2P, N-(p-Tolyl)phthalimide 2464-33-7P, N-(o-Tolyl)phthalimide 5323-50-2P, N-Propylphthalimide 7501-05-5P, N-Phenethylphthalimide 19532-95-7P 19532-96-8P 38228-97-6P 38228-99-8P 38229-00-4P 162316-52-1P 162316-53-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(nucleophilic reactions of N-hydroxy-, methoxy-, and (epoxypropoxy)-phthalimides)

L8 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN
TI Alkanedioic acid derivatives, novel potent inducers of terminal differentiation and methods of use thereof

AN 1993:538765 CAPLUS
DN 119:138765
TI Alkanedioic acid derivatives, novel potent inducers of terminal differentiation and methods of use thereof
IN Breslow, Ronald; Marks, Paul A.; Rifkind, Richard A.; Jursic, Branko
PA Sloan-Kettering Institute for Cancer Research, USA; Columbia University
SO PCT Int. Appl., 80 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9307148	A1	19930415	WO 1992-US8454	19921005
	W: AU, CA, FI, HU, JP, KR, NO, RU				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, SE				
				US 1991-771760 A	19911004
	US 5369108	A	19941129	US 1991-771760	19911004
	AU 9228703	A	19930503	AU 1992-28703	19921005
	AU 668696	B2	19960516		
				US 1991-771760 A	19911004
				WO 1992-US8454 A	19921005
	EP 642509	A1	19950315	EP 1992-922033	19921005
	EP 642509	B1	19990811		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, SE				
				US 1991-771760 A	19911004
				WO 1992-US8454 W	19921005
	JP 07502494	T	19950316	JP 1993-507109	19921005
	JP 3432823	B2	20030804		
				US 1991-771760 A	19911004
				WO 1992-US8454 W	19921005
	HU 67421	A2	19950428	HU 1994-959	19921005
	HU 225497	B1	20070129		
				US 1991-771760 A	19911004
				WO 1992-US8454 W	19921005
	RU 2128643	C1	19990410	RU 1994-21660	19921005
				US 1991-771760 A	19911004
				WO 1992-US8454 W	19921005
	AT 183185	T	19990815	AT 1992-922033	19921005
				US 1991-771760 A	19911004
	ES 2134815	T3	19991016	ES 1992-922033	19921005
				US 1991-771760 A	19911004
	JP 2003226680	A	20030812	JP 2002-337049	19921005
				US 1991-771760 A	19911004
				JP 1993-507109 A3	19921005
	CA 2120619	C	20061121	CA 1992-2120619	19921005
				US 1991-771760 A	19911004
				WO 1992-US8454 W	19921005
	NO 9401166	A	19940530	NO 1994-1166	19940329
				US 1991-771760 A	19911004
				WO 1992-US8454 A	19921005
	FI 9401537	A	19940531	FI 1994-1537	19940331
				US 1991-771760 A	19911004
				WO 1992-US8454 W	19921005
	US 5932616	A	19990803	US 1994-222685	19940404
				US 1991-771760 A3	19911004
	AU 9662063	A	19961017	AU 1996-62063	19960813
	AU 708115	B2	19990729		
				US 1991-771760 A	19911004
	US 6087367	A	20000711	US 1999-314195	19990518
				US 1991-771760 A3	19911004
				US 1994-222685 A1	19940404
	US 38506	E1	20040420	US 2001-4411	20011102

				US 1991-771760	A5 19911004

PATENT FAMILY INFORMATION:

FAN 1996:181546

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9531977	A1	19951130	WO 1995-US6554	19950519
	W: AU, CA, JP, MX				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				US 1994-246363 A	19940519
	US 5700811	A	19971223	US 1994-246363	19940519
				US 1991-771760 A2	19911004
	AU 9526474	A	19951218	AU 1995-26474	19950519
	AU 692561	B2	19980611		
				US 1994-246363 A	19940519
				WO 1995-US6554 W	19950519
	EP 760657	A1	19970312	EP 1995-921378	19950519
	EP 760657	B1	20031112		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
				US 1994-246363 A	19940519
				WO 1995-US6554 W	19950519
	AT 253906	T	20031115	AT 1995-921378	19950519
				US 1994-246363 A	19940519
				WO 1995-US6554 W	19950519

FAN 1998:8261

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5700811	A	19971223	US 1994-246363	19940519
				US 1991-771760 A2	19911004
	US 5369108	A	19941129	US 1991-771760	19911004
	AT 183185	T	19990815	AT 1992-922033	19921005
				US 1991-771760 A	19911004
	ES 2134815	T3	19991016	ES 1992-922033	19921005
				US 1991-771760 A	19911004
	JP 2003226680	A	20030812	JP 2002-337049	19921005
				US 1991-771760 A	19911004
				JP 1993-507109 A3	19921005
	US 5932616	A	19990803	US 1994-222685	19940404
				US 1991-771760 A3	19911004
	CA 2190765	A1	19951130	CA 1995-2190765	19950519
				US 1994-246363 A	19940519
	WO 9531977	A1	19951130	WO 1995-US6554	19950519
	W: AU, CA, JP, MX				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				US 1994-246363 A	19940519
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	AU 692561	B2	19980611		
				US 1994-246363 A	19940519
				WO 1995-US6554 W	19950519
	EP 760657	A1	19970312	EP 1995-921378	19950519
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				US 1994-246363 A	19940519
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				US 1991-771760 A3	19911004

				US 1994-222685	A1 19940404
US 38506		E1	20040420	US 2001-4411	20011102
				US 1991-771760	A5 19911004

OS MARPAT 119:138765

AB Alkylene bisamides and monoamides R1CO(CH2)nCOR2 [R1 = R2 = (un)substituted arylamino, cycloalkylamino, pyridylamino, piperidino, 9-purine-6-amino, thiazolylamino; R1 = R3R4N, where R3 = H, OH, (un)substituted alkyl, alkenyl, cycloalkyl, aryl, alkyloxy, aryloxy, arylalkyloxy, pyridyl or R3R4N = piperidino; R2 = hydroxyamino, hydroxy, amino, alkylamino, dialkylamino, alkyloxy; n = 4-8] were prepared for selectively inducing terminal differentiation of neoplastic cells and thereby inhibiting their proliferation (data tabulated). Thus, a pyridine solution of H2NOCH2Ph, H2NOMe, and suberoyl chloride was stirred overnight at room temperature The product was treated with 10% HCl in HCCl3-MeOH and hydrogenated over 5% Pd/C to give HONHCO(CH2)6CONHOMe.

IT 3946-32-5, Suberic acid monomethyl ester
RL: RCT (Reactant); RACT (Reactant or reagent)
(acid chlorination of)

IT 100-61-8, N-Methylaniline, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of, with diacid chlorides)

IT 67-62-9, O-Methylhydroxylamine 108-91-8, Cyclohexylamine, reactions 110-89-4, Piperidine, reactions 622-33-3, O-Benzylhydroxylamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of, with suberic acid derivative)

IT 96-50-4, 2-Thiazolamine 455-14-1 462-08-8, 3-Aminopyridine 3544-25-0 6274-22-2, 4-Amino-N-methylbenzamide 26071-05-6, 4-Amino-N-hydroxybenzamide
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of, with suberic chloride)

IT 110-70-3, N,N'-Dimethylethylenediamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of, with suberic chloride monomethyl ester)

IT 372-39-4, 3,5-Difluoroaniline 504-24-5, 4-Pyridinamine 782-45-6 873-74-5 1885-29-6 2237-30-1 22737-36-6, O-(Trimethylsilyl)hydroxylamine
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of, with suberoyl chloride)

IT 60-32-2
RL: RCT (Reactant); RACT (Reactant or reagent)
(acylation of, with terephthaloyl chloride)

IT 100-20-9, 1,4-Benzenedicarbonyl dichloride 10027-07-3, Suberoyl chloride 23713-85-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of)

IT 111-19-3, Decanedioic dichloride 111-50-2, Hexanedioic dichloride 123-98-8, Nonanedioic dichloride 142-79-0, Heptanedioic dichloride
RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, with aniline or methylaniline)

IT 22809-37-6, 6-Bromohexanoyl chloride 78582-38-4, Heptanedioic chloride benzyl ester
RL: RCT (Reactant); RACT (Reactant or reagent)
(amidation of, with benzylhydroxylamine)

IT 41624-92-4P, Suberic chloride methyl ester
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and amidation of)

IT 94136-35-3P, N-Benzyloxy-6-bromohexanoyl amide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cyanation of)

IT 149648-49-7P 149648-51-1P, N-Benzyloxy-6-cyanohexanoylamide 149648-53-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and debenzylation of)

IT 5502-67-0P 149647-78-9P 149647-81-4P 149647-82-5P 149647-83-6P
149647-85-8P 149647-86-9P 149647-88-1P 149647-89-2P 149647-90-5P
149647-91-6P 149647-96-1P 149647-97-2P 149647-98-3P 149648-24-8P
149648-29-3P 149648-30-6P 149648-39-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and terminal differentiation inducer activity of)

IT 2409-13-4P 39642-93-8P 149648-50-0P 149648-52-2P 149648-54-4P
149648-55-5P 149648-56-6P 149648-57-7P 149648-58-8P 149648-59-9P
149648-60-2P 149648-61-3P 149648-62-4P 149648-63-5P 149648-64-6P
149648-65-7P 149648-66-8P 149648-67-9P 149648-68-0P 149648-69-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

IT 56384-27-1 136268-94-5 149647-77-8 149647-79-0 149647-80-3
149647-84-7 149647-87-0 149647-92-7 149647-93-8 149647-94-9
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149648-47-5 149648-48-6

RL: RCT (Reactant); RACT (Reactant or reagent)
(terminal differentiation inducer activity of)

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	65.32	320.25

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-9.36	-10.92

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:29:34 ON 20 FEB 2007

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:55:39 ON 20 FEB 2007
FILE 'CAPLUS' ENTERED AT 11:55:39 ON 20 FEB 2007

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	65.32	320.25

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL

	ENTRY	SESSION
CA SUBSCRIBER PRICE	-9.36	-10.92

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	66.73	321.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-9.36	-10.92

FILE 'REGISTRY' ENTERED AT 11:57:25 ON 20 FEB 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 FEB 2007 HIGHEST RN 921921-74-6
DICTIONARY FILE UPDATES: 19 FEB 2007 HIGHEST RN 921921-74-6

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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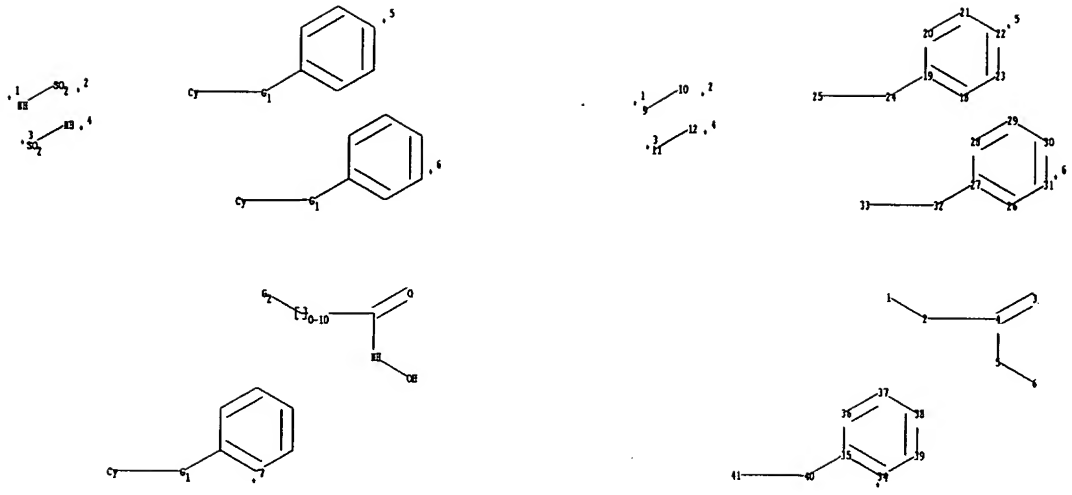

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ring nodes :
18 19 20 21 22 23 26 27 28 29 30 31 34 35 36 37 38 39
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ring bonds :
18-19 18-23 19-20 20-21 21-22 22-23 26-27 26-31 27-28 28-29 29-30 30-31
34-35 34-39 35-36 36-37 37-38 38-39
exact/norm bonds :
1-2 3-4 4-5 9-10 11-12 19-24 24-25 27-32 32-33 35-40 40-41
exact bonds :
2-4 5-6
normalized bonds :
18-19 18-23 19-20 20-21 21-22 22-23 26-27 26-31 27-28 28-29 29-30 30-31
34-35 34-39 35-36 36-37 37-38 38-39

G1:[*1-*2],[*3-*4]

G2:[*5],[*6],[*7]

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 9:CLASS 10:CLASS 11:CLASS
12:CLASS 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:CLASS 25:Atom
26:Atom 27:Atom 28:Atom 29:Atom 30:Atom 31:Atom 32:CLASS 33:Atom 34:Atom
35:Atom 36:Atom 37:Atom 38:Atom 39:Atom 40:CLASS 41:Atom

L9 STRUCTURE UPLOADED

=> d l9
L9 HAS NO ANSWERS
L9 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> seaerch l9 sss sam
COMBINATION OF STRUCTURE AND TEXT TERMS NOT VALID
The query entered contains both search terms created by
structure-building or screen commands and text search terms. L#s
created via the STRUCTURE or SCREEN commands must be searched in the
structures files separately from text terms or profiles. The L#
answer sets from structure searches can be used in crossover searches
and can be combined with text terms.

=>
=> search l9 sss sam
SAMPLE SEARCH INITIATED 11:58:21 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 5037 TO ITERATE

39.7% PROCESSED 2000 ITERATIONS 5 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 96485 TO 104995
PROJECTED ANSWERS: 39 TO 463

L10 5 SEA SSS SAM L9

=> d scan

L10 5 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
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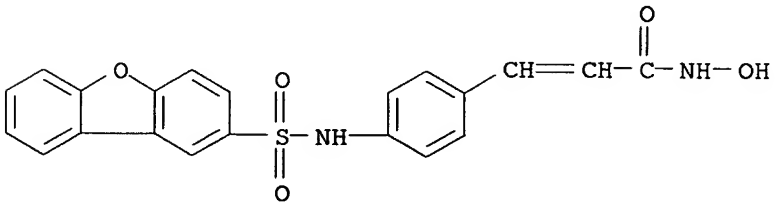
(9CI)
MF C21 H16 N2 O5 S

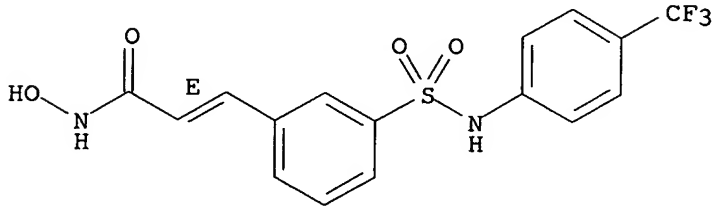


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

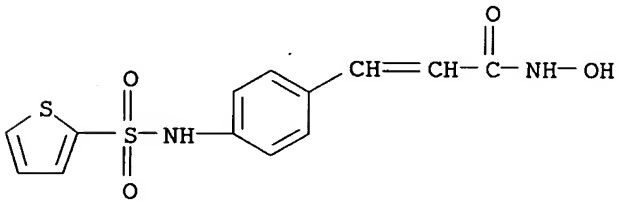
L10 5 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[3-[[[4-(trifluoromethyl)phenyl]amino]sulfonyl]phenyl]-, (2E)- (9CI)
MF C16 H13 F3 N2 O4 S

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

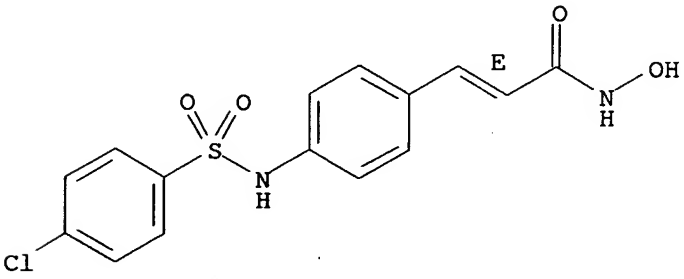
L10 5 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[4-[(2-thienylsulfonyl)amino]phenyl]- (9CI)
MF C13 H12 N2 O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

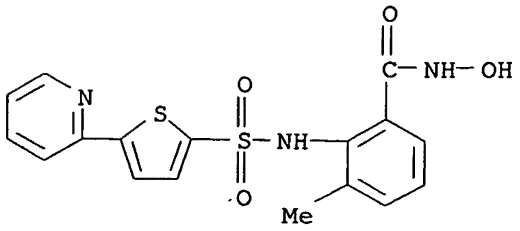
L10 5 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, 3-[4-[[(4-chlorophenyl)sulfonyl]amino]phenyl]-N-hydroxy-, (2E)- (9CI)
MF C15 H13 Cl N2 O4 S

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L10 5 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, N-hydroxy-3-methyl-2-[[[5-(2-pyridinyl)-2-thienyl]sulfonyl]amino]- (9CI)
MF C17 H15 N3 O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.35	323.01
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-10.92

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FILE COVERS 1907 - 20 Feb 2007 VOL 146 ISS 9
FILE LAST UPDATED: 19 Feb 2007 (20070219/ED)

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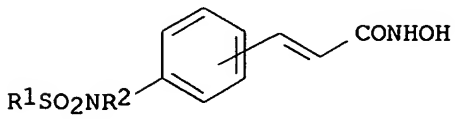
=> l10
L11 7 L10

=> d l11 1-7 ti fbib abs

L11 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

TI Novel sulfonamide derivatives as inhibitors of histone deacetylase
AN 2005:842556 CAPLUS
DN 143:359422
TI Novel sulfonamide derivatives as inhibitors of histone deacetylase
AU Finn, Paul W.; Bandara, Morwena; Butcher, Chris; Finn, Angela; Hollinshead, Ruth; Khan, Nagma; Law, Norman; Murthy, Sreenivasa; Romero, Rosario; Watkins, Clare; Andrianov, Victor; Bokaldere, Rasma M.; Dikovska, Klara; Gailite, Vija; Loza, Einars; Piskunova, Irina; Starchenkov, Igor; Vorona, Maxim; Kalvinsh, Ivars
CS TopoTarget UK Ltd., Abingdon, OX14 4RY, UK
SO Helvetica Chimica Acta (2005), 88(7), 1630-1657
CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta
DT Journal
LA English
OS CASREACT 143:359422
AB Inhibition of the enzyme histone deacetylase (HDAC) is emerging as a novel approach to the treatment of cancer. A series of novel sulfonamide derivs. were synthesized and evaluated for their ability to inhibit human HDAC. Compds. were identified which are potent enzyme inhibitors, with IC50 values in the low nanomolar range against enzyme obtained from HeLa cell exts., and with antiproliferative effects in cell culture. Extensive characterization of the structure-activity relationships of this series identified key requirements for activity. These include the direction of the sulfonamide bond and substitution patterns on the central Ph ring. The alkyl spacer between the aromatic head group and the sulfonamide functionality also influenced the HDAC inhibitory activity. One of these compds., m11.1, also designated PXD101, has entered clin. trials for solid tumors and haematol. malignancies.
RE.CNT 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
TI Polymer-assisted, multi-step solution phase synthesis and biological screening of histone deacetylase inhibitors
AN 2004:231325 CAPLUS
DN 140:406594
TI Polymer-assisted, multi-step solution phase synthesis and biological screening of histone deacetylase inhibitors
AU Bapna, Akanksha; Vickerstaffe, Emma; Warrington, Brian H.; Ladlow, Mark; Fan, Tai-Ping D.; Ley, Steven V.
CS Department of Pharmacology, University of Cambridge, Cambridge, CB2 1QJ, UK
SO Organic & Biomolecular Chemistry (2004), 2(4), 611-620
CODEN: OBCRAK; ISSN: 1477-0520
PB Royal Society of Chemistry
DT Journal
LA English
OS CASREACT 140:406594
GI



I

AB The polymer-assisted solution phase synthesis (PASP) of an array of hydroxamic acids I [R1 = 4-MeC6H4, 3,4-(MeO)2C6H3, 2-thienyl, etc.; R2 = H, Me] as histone deacetylase (HDAc) inhibitors is described. HDAc inhibitors have considerable potential as new anti-proliferative agents.

Selected compds. were shown to inhibit both human endothelial cell proliferation, and the formation of tubules (neovascularization) in an in vitro model of angiogenesis.
RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
TI Fully automated multi-step solution phase synthesis using polymer supported reagents: preparation of histone deacetylase inhibitors. [Erratum to document cited in CA140:027645]
AN 2003:648659 CAPLUS
DN 141:106239
TI Fully automated multi-step solution phase synthesis using polymer supported reagents: preparation of histone deacetylase inhibitors. [Erratum to document cited in CA140:027645]
AU Vickerstaffe, Emma; Warrington, Brian H.; Ladlow, Mark; Ley, Steven V.
CS GlaxoSmithKline Cambridge Technology Centre, University of Cambridge, Cambridge, CB2 1EW, UK
SO Organic & Biomolecular Chemistry (2003), 1(15), 2807
CODEN: OBCRAK; ISSN: 1477-0520
PB Royal Society of Chemistry
DT Journal
LA English
AB In Reference 6, the principal author Dr. D. Delorme was omitted from the reference

L11 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
TI Fully automated multi-step solution phase synthesis using polymer supported reagents: preparation of histone deacetylase inhibitors
AN 2003:534856 CAPLUS
DN 140:27645
TI Fully automated multi-step solution phase synthesis using polymer supported reagents: preparation of histone deacetylase inhibitors
AU Vickerstaffe, Emma; Warrington, Brian H.; Ladlow, Mark; Ley, Steven V.
CS GlaxoSmithKline Cambridge Technology Centre, University of Cambridge, Cambridge, CB2 1EW, UK
SO Organic & Biomolecular Chemistry (2003), 1(14), 2419-2422
CODEN: OBCRAK; ISSN: 1477-0520
PB Royal Society of Chemistry
DT Journal
LA English
OS CASREACT 140:27645
AB The first fully automated multi-step polymer assisted solution phase (PASP) synthesis is described. An array of histone deacetylase (HDAc) inhibitors, 3- and 4-RSO2NR1C6H4CH:CHCONHOH [R = 4-PhC6H4, 4-MeC6H4, 4-ClC6H4; R1 = H, Me, PhCH2] was prepared by an unattended 4-5 step sequence incorporating in-line catch and release purification
RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of hydroxamic acids as inhibitors of histone deacetylase
AN 2001:396861 CAPLUS
DN 135:5455
TI Preparation of hydroxamic acids as inhibitors of histone deacetylase
IN Delorme, Daniel; Ruel, Rejean; Lavoie, Rico; Thibault, Carl; Abou-khalil, Elie
PA Methylgene, Inc., Can.
SO PCT Int. Appl., 147 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001038322	A1	20010531	WO 2000-IB1881	20001122
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				US 1999-167035P	P 19991123
	CA 2391952	A1	20010531	CA 2000-2391952	20001122
				US 1999-167035P	P 19991123
				WO 2000-IB1881	W 20001122
	EP 1233958	A1	20020828	EP 2000-981535	20001122
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
				US 1999-167035P	P 19991123
				WO 2000-IB1881	W 20001122
	US 6541661	B1	20030401	US 2000-718265	20001122
				US 1999-167035P	P 19991123
	JP 2003514904	T	20030422	JP 2001-540085	20001122
				US 1999-167035P	P 19991123
				WO 2000-IB1881	W 20001122
	AU 783504	B2	20051103	AU 2001-18768	20001122
				US 1999-167035P	P 19991123
				WO 2000-IB1881	W 20001122
	EP 1748046	A2	20070131	EP 2006-11600	20001122
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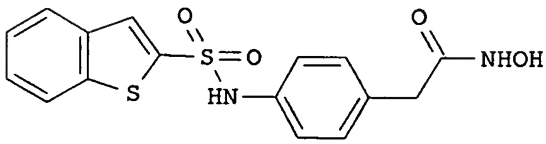
				US 1999-167035P	P 19991123
				EP 2000-981535	A3 20001122
	AU 2006200456	A1	20060302	AU 2006-200456	20060202
				AU 2001-18768	A3 20001122

OS MARPAT 135:5455

GI



I

AB The title compds. CyL1ArY1CONHZ [Cy = (un)substituted cycloalkyl, aryl, heteroaryl, etc.; L1 = (CH2)mW (wherein m = 0-4; W = CONH, SO2NH, NHCO, NHSO2, NHCONH); Ar = (un)substituted arylene which may be fused to an aryl, heteroaryl, etc.; Y1 = a bond, alkylene; Z = anilinyl, pyridyl, thiadiazolyl, OM (M = H, a pharmaceutically acceptable cation)], useful for inhibiting histone deacetylase enzymic activity, were prepared E.g., a multi-step synthesis of the title compound I which showed IC50 of 7 μM against histone deacetylase in nuclear exts. from H446 cells (pooled HDACs), was given. The invention also provides compns. and methods for treating cell proliferative diseases and conditions.

RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of sulfonamidobenzenehydroxamates and analogs as matrix

metalloproteinase and TACE inhibitors
AN 1999:495123 CAPLUS
DN 131:129760
TI Preparation of sulfonamidobenzenehydroxamates and analogs as matrix metalloproteinase and TACE inhibitors
IN Levin, Jeremy Ian; Du, Mila T.; Venkatesan, Aranapakam Mudumbai; Nelson, Frances Christy; Zask, Arie; Gu, Yansong
PA American Cyanamid Co., USA
SO U.S., 68 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI US 5929097	A	19990727	US 1997-944593		19971006
			US 1996-28504P	P	19961016

OS MARPAT 131:129760
AB RSO2N(CH2R7)ZCONHOH [I; R = (un)substituted (hetero)aryl; R7 = H, alkyl, Ph, etc.; Z = (un)substituted phenylene or -naphthylene] were prepared Thus, 2-(H2N)C6H4CO2Me was amidated by 4-(MeO)C6H4SO2Cl and the N-benzylated product converted in 2 steps to I [R = C6H4(OMe)-4, R7 = Ph, Z = 1,2-phenylene]. Data for biol. activity of I were given.
RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
TI The preparation and use of ortho-sulfonamido aryl hydroxamic acids as matrix metalloproteinase and TACE inhibitors
AN 1998:251153 CAPLUS
DN 128:308308
TI The preparation and use of ortho-sulfonamido aryl hydroxamic acids as matrix metalloproteinase and TACE inhibitors
IN Levin, Jeremy Ian; Du Mila, T.; Venkatesan, Aranapakam Mudumbai; Nelson, Frances Christy; Zask, Arie; Gu, Yansong
PA American Cyanamid Company, USA
SO PCT Int. Appl., 164 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI WO 9816503	A2	19980423	WO 1997-US18280		19971008
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RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
			US 1996-732631	A	19961016
CA 2268894	A1	19980423	CA 1997-2268894		19971008
			US 1996-732631	A	19961016
			WO 1997-US18280	W	19971008
AU 9851458	A	19980511	AU 1998-51458		19971008
AU 731737	B2	20010405			
			US 1996-732631	A	19961016
			WO 1997-US18280	W	19971008
EP 938471	A1	19990901	EP 1997-946246		19971008
EP 938471	B1	20011212			
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SI, LT, LV, FI, RO

			US 1996-732631	A	19961016
			WO 1997-US18280	W	19971008
BR 9712525	A	19991019	BR 1997-12525		19971008
			US 1996-732631	A	19961016
			WO 1997-US18280	W	19971008
CN 1240429	A	20000105	CN 1997-180613		19971008
			US 1996-732631	A	19961016
			WO 1997-US18280	W	19971008
HU 200000641	A2	20001028	HU 2000-641		19971008
			US 1996-732631	A	19961016
			WO 1997-US18280	W	19971008
JP 2001504809	T	20010410	JP 1998-518448		19971008
			US 1996-732631	A	19961016
			WO 1997-US18280	W	19971008
AT 210637	T	20011215	AT 1997-946246		19971008
			US 1996-732631	A	19961016
			WO 1997-US18280	W	19971008
ES 2166102	T3	20020401	ES 1997-946246		19971008
			US 1996-732631	A	19961016
PT 938471	T	20020531	PT 1997-946246		19971008
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ZA 9709233	A	19990415	ZA 1997-9233		19971015
			US 1996-732631	A	19961016
TW 410220	B	20001101	TW 1997-86114187		19971015
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KR 2000049196	A	20000725	KR 1999-703294		19990415
			US 1996-732631	A	19961016
HK 1021178	A1	20020404	HK 2000-100090		20000106
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			WO 1997-US18280	W	19971008

OS MARPAT 128:308308

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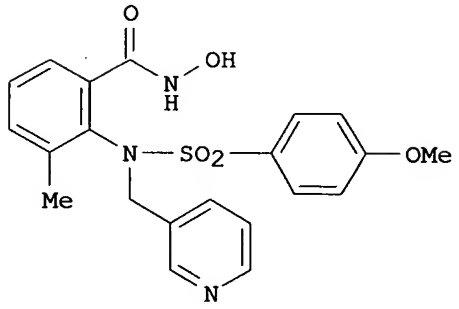

II

AB The invention relates to novel, low mol. weight, non-peptide inhibitors of matrix metalloproteinases (e.g. gelatinases, stromelysins and collagenases) and TNF-α converting enzyme (TACE, tumor necrosis factor-α converting enzyme). The compds. are useful for the treatment of diseases in which these enzymes are implicated such as arthritis, tumor growth and metastasis, angiogenesis, tissue ulceration, abnormal wound healing, periodontal disease, bone disease, proteinuria, aneurysmal aortic disease, degenerative cartilage loss following traumatic joint injury, demyelinating diseases of the nervous system, graft rejection, cachexia, anorexia, inflammation, fever, insulin resistance, septic shock, congestive heart failure, inflammatory disease of the central nervous system, inflammatory bowel disease, HIV infection, age related macular degeneration, diabetic retinopathy, proliferative vitreoretinopathy, retinopathy of prematurity, ocular inflammation,

keratoconus, Sjogren's syndrome, myopia, ocular tumors, and ocular angiogenesis/neovascularization. The invention compds. are represented by the formula ZSO2N(CH2R7)ACONHOH [I; A = (un)substituted Ph or naphthyl; Z = (un)substituted aryl, heteroaryl, or benzo-fused heteroaryl; R7 = H, (un)substituted alk(en/yn)yl, Ph, naphthyl, 5- or 6-membered heteroaryl, cycloalkyl, or cycloheteroalkyl; or R7CH2NA forms a non-aromatic 1,2-benzo-fused 7- to 10-membered heterocyclic ring with an optional addition benzo fusion; where the hydroxamic acid moiety and the sulfonamido moiety are bonded to adjacent carbons on group A], and include pharmaceutically acceptable salts, optical isomers, and diastereomers. Prepns. of over 400 compds., including I and their intermediates, are given. For instance, 2-[(4-methoxybenzenesulfonyl)amino]-3-methylbenzoic acid Me ester (preparation given) was N-alkylated by 3-picolyl chloride-HCl (83%), followed by hydrolysis of the ester with LiOH in aqueous THF (100%), activation with oxalyl chloride, and hydroxamidation with NH2OH.HCl (51%), to give title compound II. At 50 mg/kg/day in rats with cartilage implants, II gave 44.6% inhibition of cartilage weight loss, and 51.2% inhibition of cartilage collagen loss.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	24.98	347.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.46	-16.38

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PASSWORD:
* * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 12:56:05 ON 20 FEB 2007
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FULL ESTIMATED COST	24.98	347.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-5.46	-16.38

=> d his

(FILE 'HOME' ENTERED AT 10:20:08 ON 20 FEB 2007)

FILE 'REGISTRY' ENTERED AT 10:20:20 ON 20 FEB 2007
L1 STRUCTURE UPLOADED
L2 2 SEARCH L1 EXACT FULL
L3 0 \\D SCAN

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L4             2 L2

     FILE 'REGISTRY' ENTERED AT 11:23:51 ON 20 FEB 2007
L5                STRUCTURE UPLOADED
L6             0 SEARCH L5 SSS SAM
L7            29 SEARCH L5 SSS FULL
                  SAVE TEMP L7 RAWHITS/A

     FILE 'CAPLUS' ENTERED AT 11:26:30 ON 20 FEB 2007
L8            12 L7
                  SAVE TEMP L8 1STSTABHITS/A ENDS/A
                  SAVE TEMP L8 ONESTABHITS/A

     FILE 'REGISTRY' ENTERED AT 11:57:25 ON 20 FEB 2007
L9                STRUCTURE UPLOADED
L10            5 SEARCH L9 SSS SAM

     FILE 'CAPLUS' ENTERED AT 11:59:30 ON 20 FEB 2007
L11            7 L10

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                    25.92     348.93

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE                                    -5.46     -16.38

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DICTIONARY FILE UPDATES:  19 FEB 2007  HIGHEST RN 921921-74-6

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http://www.cas.org/ONLINE/UG/regprops.html

=> FIL STNGUIDE
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
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FULL ESTIMATED COST                                     0.90     349.83

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
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CA SUBSCRIBER PRICE 0.00 -16.38

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Feb 16, 2007 (20070216/UP).

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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DICTIONARY FILE UPDATES: 19 FEB 2007 HIGHEST RN 921921-74-6

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

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FULL SCREEN SEARCH COMPLETED - 100701 TO ITERATE

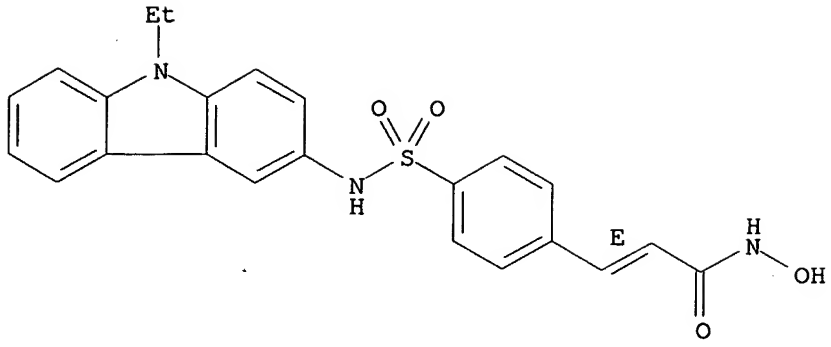
100.0% PROCESSED 100701 ITERATIONS 318 ANSWERS
SEARCH TIME: 00.00.02

L12 318 SEA SSS FUL L9

=> d scan

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, 3-[4-[[(9-ethyl-9H-carbazol-3-yl)amino]sulfonyl]phenyl]-N-hydroxy-, (2E)- (9CI)
MF C23 H21 N3 O4 S

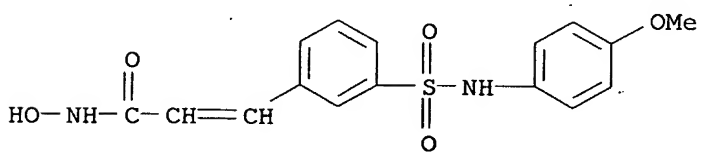
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

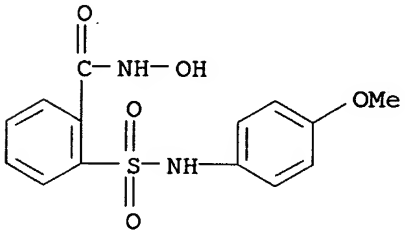
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):6

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[3-[[(4-methoxyphenyl)amino]sulfonyl]phenyl]- (9CI)
MF C16 H16 N2 O5 S



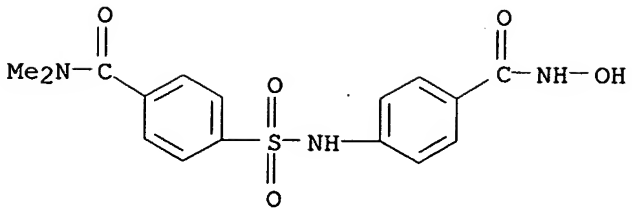
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, N-hydroxy-2-[[(4-methoxyphenyl)amino]sulfonyl]- (9CI)
MF C14 H14 N2 O5 S



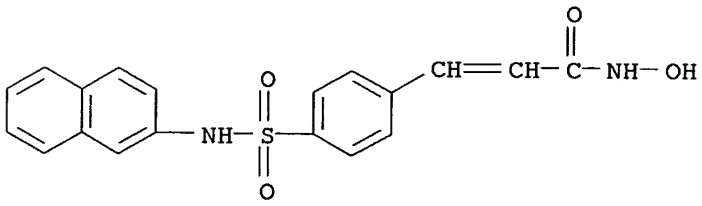
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, 4-[[[4-[(hydroxyamino)carbonyl]phenyl]amino]sulfonyl]-N,N-dimethyl- (9CI)
MF C16 H17 N3 O5 S



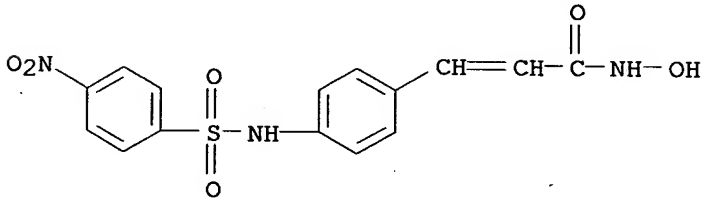
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[4-[(2-naphthalenylamino)sulfonyl]phenyl]-(9CI)
MF C19 H16 N2 O4 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

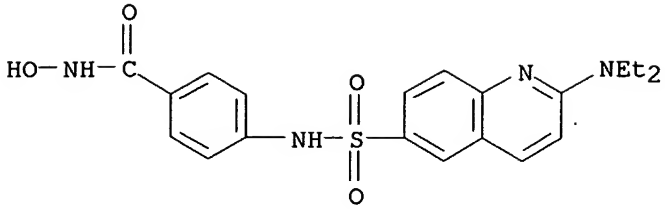
L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[4-[[(4-nitrophenyl)sulfonyl]amino]phenyl]-(9CI)
MF C15 H13 N3 O6 S



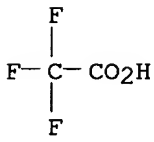
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, 4-[[[2-(diethylamino)-6-quinolinyl]sulfonyl]amino]-N-hydroxy-, mono(trifluoroacetate) (salt) (9CI)
MF C20 H22 N4 O4 S . C2 H F3 O2

CM 1



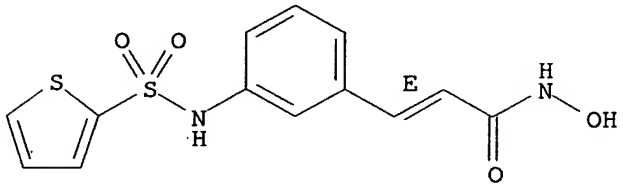
CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

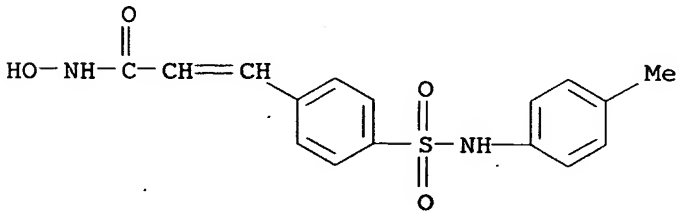
L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[3-[(2-thienylsulfonyl)amino]phenyl]-, (2E)-(9CI)
MF C13 H12 N2 O4 S2

Double bond geometry as shown.



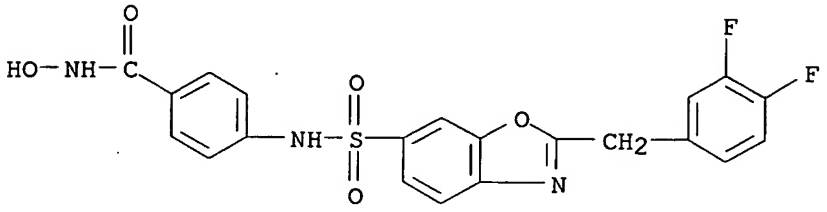
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[4-[[(4-methylphenyl)amino]sulfonyl]phenyl]-(9CI)
MF C16 H16 N2 O4 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

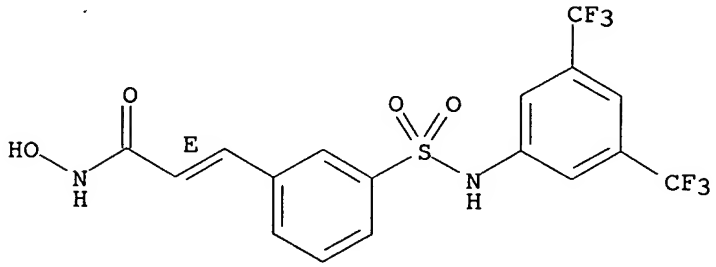
L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, 4-[[[2-[(3,4-difluorophenyl)methyl]-6-benzoxazolyl]sulfonyl]amino]-N-hydroxy- (9CI)
MF C21 H15 F2 N3 O5 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

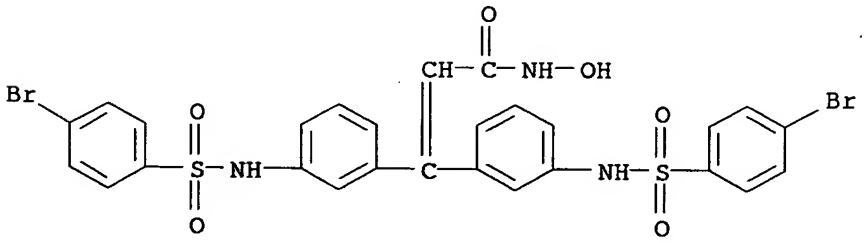
L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, 3-[3-[[[3,5-bis(trifluoromethyl)phenyl]amino]sulfonyl]phenyl]-N-hydroxy-, (2E)- (9CI)
MF C17 H12 F6 N2 O4 S

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

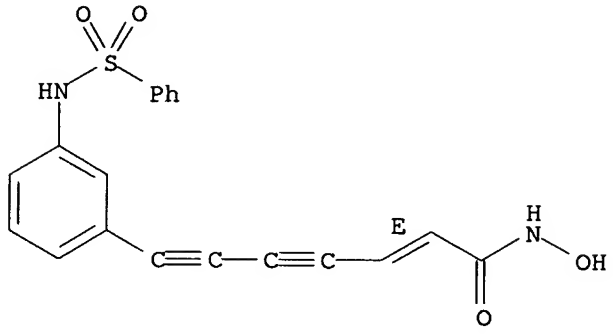
L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, 3,3-bis[3-[[(4-bromophenyl)sulfonyl]amino]phenyl]-N-hydroxy- (9CI)
MF C27 H21 Br2 N3 O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

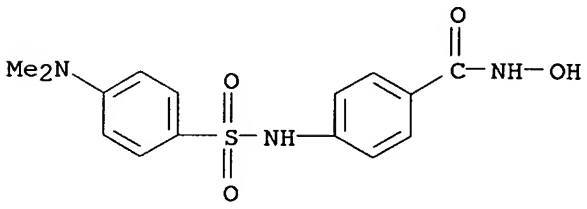
L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Heptene-4,6-diynamide, N-hydroxy-7-[3-[(phenylsulfonyl)amino]phenyl]-, (E)- (9CI)
MF C19 H14 N2 O4 S

Double bond geometry as shown.



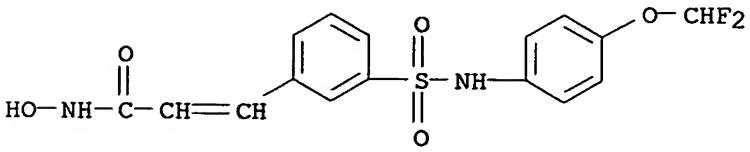
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, 4-[[[4-(dimethylamino)phenyl]sulfonyl]amino]-N-hydroxy- (9CI)
MF C15 H17 N3 O4 S
CI COM



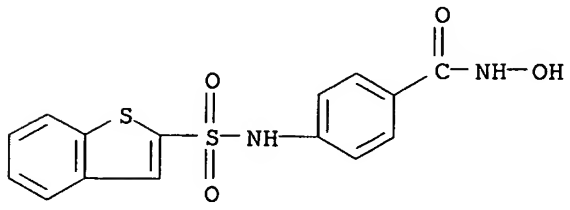
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, 3-[3-[[[4-(difluoromethoxy)phenyl]amino]sulfonyl]phenyl]-N-hydroxy- (9CI)
MF C16 H14 F2 N2 O5 S



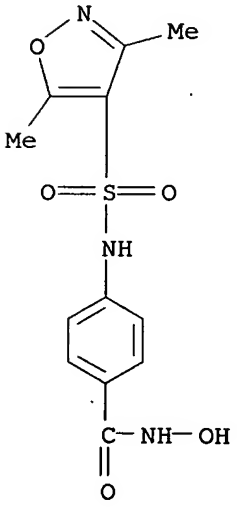
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, 4-[(benzo[b]thien-2-ylsulfonyl)amino]-N-hydroxy- (9CI)
MF C15 H12 N2 O4 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

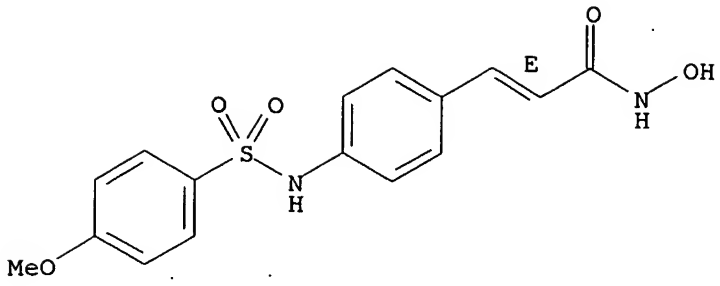
L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, 4-[[(3,5-dimethyl-4-isoxazolyl)sulfonyl]amino]-N-hydroxy- (9CI)
MF C12 H13 N3 O5 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

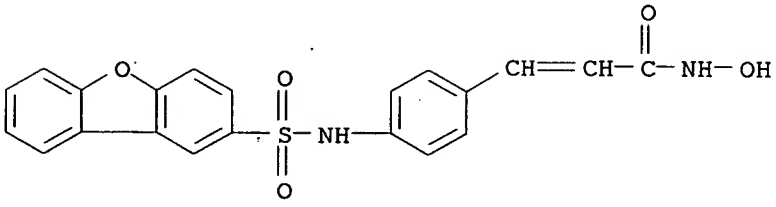
L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[4-[[(4-methoxyphenyl)sulfonyl]amino]phenyl]-, (2E)- (9CI)
MF C16 H16 N2 O5 S

Double bond geometry as shown.



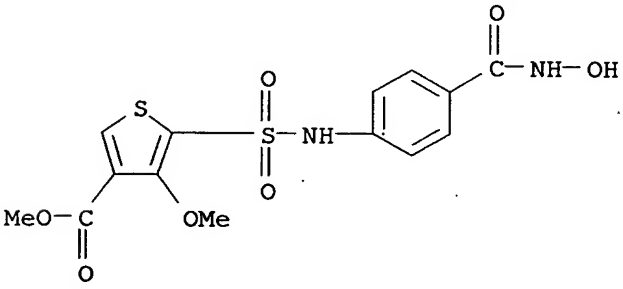
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, 3-[4-[(2-dibenzofuranylsulfonyl)amino]phenyl]-N-hydroxy-
(9CI)
MF C21 H16 N2 O5 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 3-Thiophenecarboxylic acid, 5-[[[4-[(hydroxyamino)carbonyl]phenyl]amino]su
lfonyl]-4-methoxy-, methyl ester (9CI)
MF C14 H14 N2 O7 S2

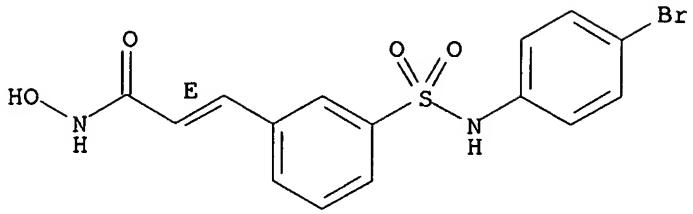


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, 3-[3-[[(4-bromophenyl)amino]sulfonyl]phenyl]-N-hydroxy-,
(2E)- (9CI)

MF C15 H13 Br N2 O4 S

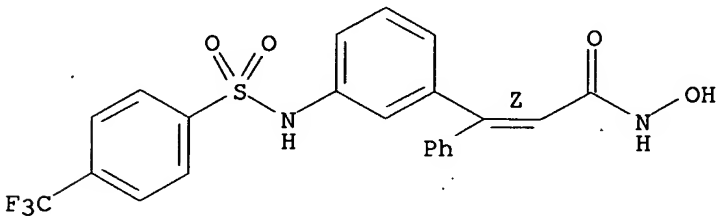
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

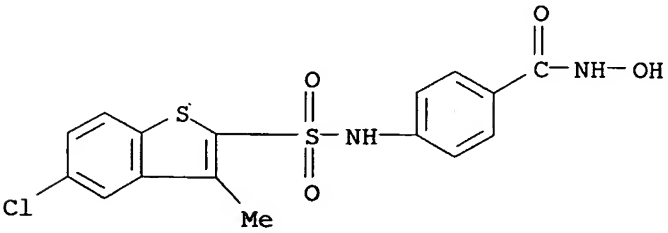
L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-phenyl-3-[3-[[[4-(trifluoromethyl)phenyl]sulfonyl]amino]phenyl]-, (2Z)- (9CI)
MF C22 H17 F3 N2 O4 S

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, 4-[[(5-chloro-3-methylbenzo[b]thien-2-yl)sulfonyl]amino]-N-hydroxy- (9CI)
MF C16 H13 Cl N2 O4 S2

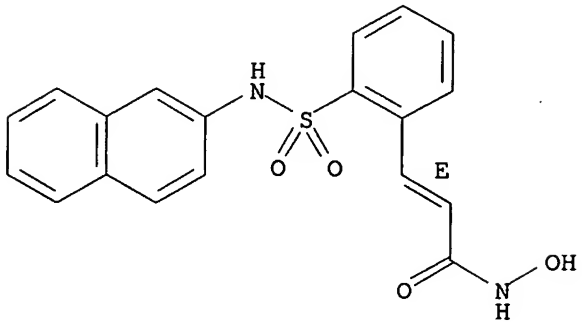


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[2-[(2-naphthalenylamino)sulfonyl]phenyl]-,

(2E)- (9CI)
MF C19 H16 N2 O4 S

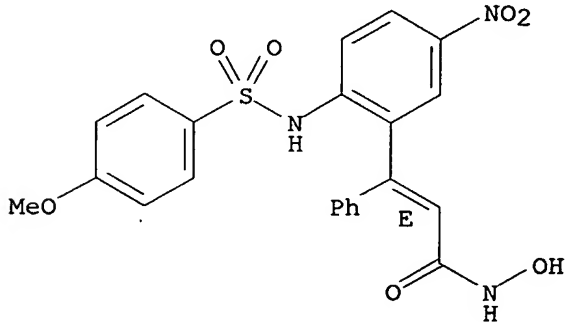
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

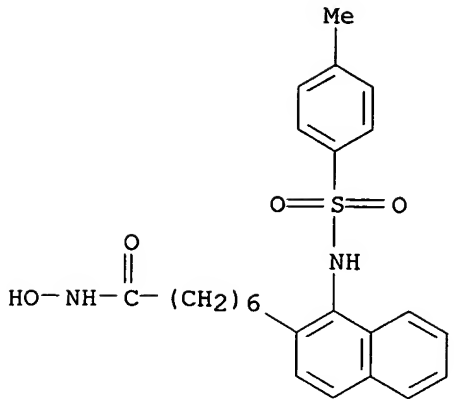
L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Propenamide, N-hydroxy-3-[2-[[(4-methoxyphenyl)sulfonyl]amino]-5-nitrophenyl]-3-phenyl-, (2E)- (9CI)
MF C22 H19 N3 O7 S

Double bond geometry as shown.



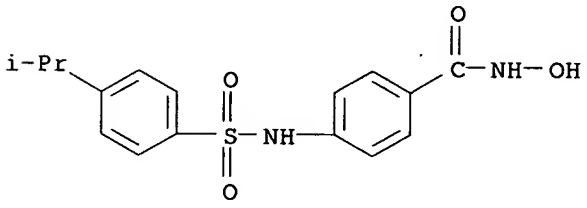
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 2-Naphthaleneheptanamide, N-hydroxy-1-[[(4-methylphenyl)sulfonyl]amino]-(9CI)
MF C24 H28 N2 O4 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 318 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN Benzamide, N-hydroxy-4-[[[4-(1-methylethyl)phenyl]sulfonyl]amino]- (9CI)
MF C16 H18 N2 O4 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> save temp l12 rawsulphamde/a
ANSWER SET L12 HAS BEEN SAVED AS 'RAWSULPHAMDE/A'

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	173.00	522.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-16.38

FILE 'CAPLUS' ENTERED AT 13:00:49 ON 20 FEB 2007

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FILE COVERS 1907 - 20 Feb 2007 VOL 146 ISS 9
FILE LAST UPDATED: 19 Feb 2007 (20070219/ED)

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=> l12
L13 131 L12

=> file save temp l13 sulphnmderefs/a
'SAVE' IS NOT A VALID FILE NAME
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files that are available. If you have requested multiple files, you can specify a corrected file name or you can enter "IGNORE" to continue accessing the remaining file names entered.
ENTER A FILE NAME OR (IGNORE):end

=> save temp l13 sulphnmderefs/a
SULPHNMDEREFS/A IS NOT A VALID SAVED NAME
Enter the name you wish to use for the saved query, answer set, or L-number list. The name must:
1. Begin with a letter,
2. Have 1-12 characters,
3. Contain only letters (A-Z) and numbers (0-9),
4. End with /Q for a query (search profile, structure, or screen set), /A for an answer set, or /L for an L-number list.
5. Not already be in use as a saved name,
6. Not be END, SAV, SAVE, SAVED
7. Not have the form of an L-number (Lnnn).

ENTER NAME OR (END):end

=> save temp l13 sulphrefs/a
ANSWER SET L13 HAS BEEN SAVED AS 'SULPHREFS/A'

=> d l13 125-131 ti

L13 ANSWER 125 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI Silver halide photographic material containing hydrazine compound

L13 ANSWER 126 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of aromatic hydroxamic acid compounds for preventing and treating neurodegenerative diseases

L13 ANSWER 127 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI Oxamflatin: a novel compound which reverses malignant phenotype to normal one via induction of JunD

L13 ANSWER 128 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI (2E)-5-[3-[(Phenylsulfonyl)amino]phenyl]- pent-2-en-4-ynohydroxamic Acid and Its Derivatives as Novel and Potent Inhibitors of ras Transformation

L13 ANSWER 129 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of sulfonamidoaryl hydroxamic acids as inflammation and tumor inhibitors

L13 ANSWER 130 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI Synthesis and screening of some new methyl salicylate-5-sulfonamides containing active units as analgesic agents

L13 ANSWER 131 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI o-Hydroxybenzohydroxamic acids

=> d l13 126-131 ti fbib abs

L13 ANSWER 126 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of aromatic hydroxamic acid compounds for preventing and treating neurodegenerative diseases
AN 1996:733885 CAPLUS
DN 126:7829
TI Preparation of aromatic hydroxamic acid compounds for preventing and treating neurodegenerative diseases
IN Kato, Kaneyoshi; Miki, Shokyo; Naruo, Ken-Ichi; Takahashi, Hideki
PA Takeda Chemical Industries, Ltd., Japan
SO Eur. Pat. Appl., 83 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	EP 737671	A2	19961016	EP 1996-302494		19960410
	EP 737671	A3	19970502			
	EP 737671	B1	20011212			
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				JP 1995-215932	A	19950824
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				JP 1995-84342	A	19950410
				JP 1995-215932	A	19950824

OS MARPAT 126:7829
AB The title compds. ArR1CHCH2QCONHOR2 (I) and ArR1C:CHQCONHOR2 [II; R1 = H, cyano, an optionally substituted hydrocarbon or Ph or naphthyl, NR3R4, acyl; R2 = acyl; R3, R4 = H, acyl, optionally substituted hydrocarbon group, or R3 and R4 may combine together with the adjacent N atom to form a ring; Ar = (un)substituted C6-14 aryl or 5-11 membered heteroaryl; Q = divalent C2-8 aliphatic hydrocarbon group] or salts thereof are prepared I and II (R2 = H, acyl) having excellent anti-neurodegenerative activity with a low cytotoxicity are useful for preventing or treating neurodegenerative diseases such as Alzheimer's disease, Parkinson's disease, Down's syndrome, Pick's disease, multiple sclerosis, and diseases typically mediated by viral infections, etc. Thus, 6-(4-methoxyphenyl)-6-(3-methyl-1,4-naphthoquinon-2-yl)hexanohydroxamic acid was reacted with Ac2O in the

presence of pyridine to give I (R1 = 3-methyl-1,4-naphthoquinon-2-yl, Ar = 4-MePh, Q = (CH2)3, R2 = Ac). I (R1 = 3-methyl-1,4-naphthoquinon-2-yl, Ar = 4-MeOPh, Q = (CH2)3, R2 = H) showed IC50 of 0.08 μM against lipopolysaccharides-induced NO production in a mixed rat cerebral cell culture system.

L13 ANSWER 127 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI Oxamflatin: a novel compound which reverses malignant phenotype to normal one via induction of JunD
AN 1996:463426 CAPLUS
DN 125:157903
TI Oxamflatin: a novel compound which reverses malignant phenotype to normal one via induction of JunD
AU Sunoda, Hikaru; Nishida, Kazuyo; Takayuki, Nishida; Yoshioka, Takayuki; Ohtani, Mitsuaki; Sugita, Kenji
CS Shionogi Res. Lab., Shionogi & Co., Ltd., Osaka, 553, Japan
SO Oncogene (1996), 13(1), 143-149
CODEN: ONCNES; ISSN: 0950-9232
PB Stockton
DT Journal
LA English
AB In the course of screening for inhibitors of tumorigenic phenotype of K-ras-transformed NIH3T3 cells (DT cells), we found a novel compound, oxamflatin, an aromatic sulfonamide hydroxamate derivative, which induces flat phenotype in these cells and suppresses their anchorage-independent growth. In contrast to dT cells, in v-raf-transformed NIH3T3 cells, no change in their morphol. and no specific inhibition of their anchorage-independent growth was observed Interestingly, oxamflatin was effective to NIH3T3 cells transformed by constitutively activated mutant of MEK, indicating the possibility that oncogene-induced morphol. change is not necessarily induced by common signaling pathway such as MAP kinase cascade. In oxamflatin-treated DT cells, the expression of transcription factor junD was highly augmented, resulting in trans-activation of fibronectin gene by junD via cAMP responsive element in its promoter. This behavior of junD was confirmed to correlate well with partial blocking of malignant phenotype in DT cells. Thus, oxamflatin can be categorized as the first reagent which induces genes whose products can interfere with oncogene-dependent transformation.

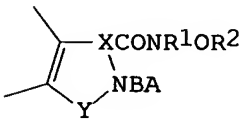
L13 ANSWER 128 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI (2E)-5-[3-[(Phenylsulfonyl)amino]phenyl]- pent-2-en-4-ynohydroxamic Acid and Its Derivatives as Novel and Potent Inhibitors of ras Transformation
AN 1996:382877 CAPLUS
DN 125:75336
TI (2E)-5-[3-[(Phenylsulfonyl)amino]phenyl]- pent-2-en-4-ynohydroxamic Acid and Its Derivatives as Novel and Potent Inhibitors of ras Transformation
AU Ohtani, Mitsuaki; Matsuura, Takaharu; Shirahase, Kazuhiro; Sugita, Kenji
CS Shionogi Research Laboratories, Shionogi Co., Osaka, 553, Japan
SO Journal of Medicinal Chemistry (1996), 39(15), 2871-2873
CODEN: JMCMAR; ISSN: 0022-2623
PB American Chemical Society
DT Journal
LA English
OS CASREACT 125:75336
AB In the course of screening compds. exhibiting reversion of the cell morphol. transformed by ras-oncogene, the authors found a novel type of aromatic hydroxamic acid derivs. Structure-activity relation (SAR) study was tried and (2E)-5-[3-(phenylsulfonylamino)phenyl]pent-2-en-4-ynohydroxamic acid was found to show very potent activity with an MIC value of 0.04 μM. It reversed the phenotype of ras-transformed cells to the normal one, indicating reversion of tumor characteristic to normal one. This is the first report describing the synthesis of novel aromatic conjugated hydroxamic acid derivs. inducing genes with products that can interfere

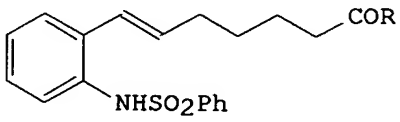
with the ras-dependent transformation.

L13 ANSWER 129 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of sulfonamidoaryl hydroxamic acids as inflammation and tumor inhibitors
AN 1994:54333 CAPLUS
DN 120:54333
TI Preparation of sulfonamidoaryl hydroxamic acids as inflammation and tumor inhibitors
IN Ohtani, Mitsuaki; Arita, Hitoshi; Sugita, Kenji; Matsuura, Takaharu; Shirahase, Kazuhiro
PA Shionogi and Co., Ltd., Japan
SO PCT Int. Appl., 125 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9312075	A1	19930624	WO 1992-JP1593	19921207
	W: JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				JP 1991-350793 A	19911210
	EP 570594	A1	19931124	EP 1992-924883	19921207
	EP 570594	B1	19970730		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
				JP 1991-350793 A	19911210
				WO 1992-JP1593 W	19921207
	AT 156116	T	19970815	AT 1992-924883	19921207
				JP 1991-350793 A	19911210
	ES 2107557	T3	19971201	ES 1992-924883	19921207
				JP 1991-350793 A	19911210
	JP 3342485	B2	20021111	JP 1993-510775	19921207
				JP 1991-350793 A	19911210
				WO 1992-JP1593 W	19921207
	US 5534654	A	19960709	US 1993-98272	19930803
				JP 1991-350793 A	19911210
				WO 1992-JP1593 W	19921207

OS CASREACT 120:54333; MARPAT 120:54333
GI

Q= 



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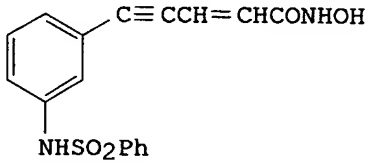
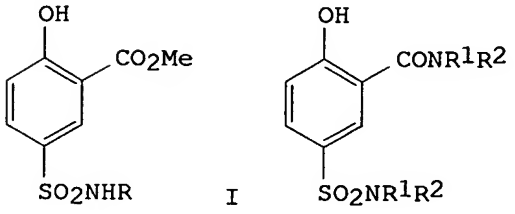


III

AB The title compds. R2ONR1COXA1YNR3BA2 (I) [A1 = (substituted) aromatic ring, aromatic heterocyclic ring; A2 = H, (substituted) aryl, aromatic heterocyclic ring; B = single bond, B1B2; B1 = CO, SO2; B2 = alkylene, alkenylene, etc.; X = (substituted) alkylene which may have O, S, N and may have unsatd. bond; Y = single bond, heteroatom, (substituted) alkylene which may contain heteroatom and may have unsatd. bond; X and N (which is linked to Y) may together form a moiety Q; R1 - R3 = H, (substituted) alkyl,

aryl] were prepared I inhibit hemangioendothelial cell growth, the development of a lymphocyte adhesion factor, and ras gene-induced cell transformation and are useful as inflammation and tumor inhibitors. Condensation of carboxylic acid (E)-II (R = OH) with NH2OH.HCl in DMF containing N-hydroxysuccinimide, N,N-dicyclohexylcarbodiimide, and Et3n gave (E)-II (R = NHOH). Hydroxamic acid (E)-III in vitro exhibited MIC of 0.039 μM against ras gene-induced cell transformation.

L13 ANSWER 130 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI Synthesis and screening of some new methyl salicylate-5-sulfonamides containing active units as analgesic agents
AN 1989:614401 CAPLUS
DN 111:214401
TI Synthesis and screening of some new methyl salicylate-5-sulfonamides containing active units as analgesic agents
AU Hannout, I. B.; Sharief, A. M. Sh.; Ammar, Y. A.; Mohamed, Y. A.; Youssef, A. A.
CS Fac. Sci., Al-Azhar Univ., Cairo, Egypt
SO Journal of the Serbian Chemical Society (1988), 53(7), 353-61
CODEN: JSCSEN; ISSN: 0352-5139
DT Journal
LA English
OS CASREACT 111:214401
GI



AB Treatment of ClSO2C6H3(CO2Me)OH-3,4 with amines under various conditions afforded sulfonamides, e.g. I (R = alkyl, aryl) or amidosulfonylsalicylamides, e.g. II (R1 = H, R2 = cyclohexyl, 4-AcC6H4). Seven products were screened for toxicity and exhibited mild or weak analgesic activity.

L13 ANSWER 131 OF 131 CAPLUS COPYRIGHT 2007 ACS on STN
TI o-Hydroxybenzohydroxamic acids
AN 1958:56242 CAPLUS
DN 52:56242
OREF 52:10184a-d
TI o-Hydroxybenzohydroxamic acids
IN Priewe, Hans; Rutkowski, Rudi
PA Schering A.-G.
DT Patent
LA Unavailable
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 855866		19521117	DE	

AB o-Hydroxybenzohydroxamic acids are obtained by the reaction of p-substituted o-hydroxybenzoic esters with NH2OH in alkaline solns. with subsequent isolation of the free acids. Examples: 167 g. Me 4-amino-2-hydroxybenzoate and 90.4 g. NH2OH.HCl (I) in 2 l. 2N NaOH left to stand for several hrs. and treated with HCl gives 4-amino-2-hydroxybenzohydroxamic acid-HCl. Treatment with bicarbonate solution gives 106 g. free acid, needles, m. 187° (decomposition). Me

4-nitro-2-hydroxybenzoate (1 mole) with 1.3 moles I gives 65% 4-nitro-2-hydroxybenzohydroxamic acid, light yellow needles, m. 214°; Me 4-acetamido-2-hydroxybenzoate (1 mole) with 1.3 moles I gives 64.5% 4-acetamido-2-hydroxybenzohydroxamic acid, m. 218°; Me N-carbethoxy-4-amino-2-hydroxybenzoate (f.p. 145°, 8 g.) with 7 g. I gives 49.6% N-carbethoxy-4-amino-2-hydroxybenzohydroxamic acid, m. 178-9°; Me 3,5-dibromo-4-amino-2-hydroxybenzoate (m. 138-40°) with I gives 3,5-dibromo-4-amino-2-hydroxybenzohydroxamic acid, m. 194-5°; Me 4-iodosalicylate (1.2 g.) with 0.4 g. I gives 57% 4-iodo-2-hydroxybenzohydroxamic acid, m. 202° (decomposition); Me 4-benzenesulfonamido-2-hydroxybenzoate (2.3 g., m. 189-90°) with 0.7 g. I gives 59% 4-benzenesulfonamido-2-hydroxybenzohydroxamic acid, m. 222° (decomposition).

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	23.59	546.48

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.68	-21.06

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 13:06:01 ON 20 FEB 2007